BLOOMSBURG STATE COLLEGE

1974
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1975

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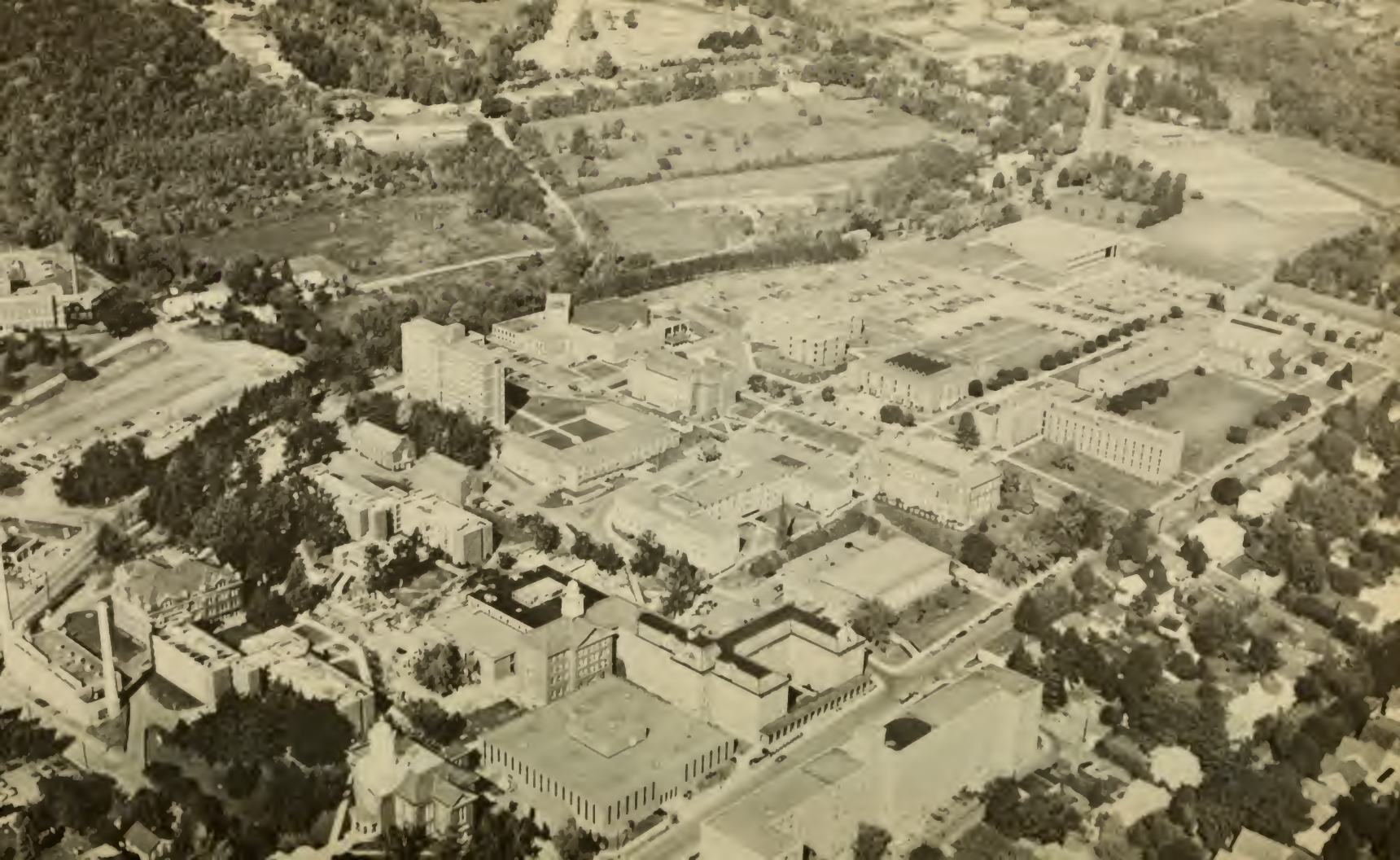
BLOOMSBURG STATE COLLEGE

1974-75

Undergraduate Bulletin



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COLLEGE CALENDAR
1974-1975

FIRST SEMESTER

Registration	Tuesday, September 3
Classes Begin - 8 A.M.	Wednesday, September 4
Thanksgiving Recess Begins - 12 Noon	Wednesday, November 27
Classes Resume - 8 A.M.	Monday, December 2
Final Examinations Begin - 8 A.M.	Monday, December 16
First Semester Ends - 5 P.M.	Saturday, December 21
Commencement	Sunday, December 22

SECOND SEMESTER

Registration	Monday, January 13
Classes Begin - 8 A.M.	Tuesday, January 14
Easter/Spring Recess Begins - 5 P.M.	Friday, March 21
Classes Resume - 8 A.M.	Monday, April 7
Final Examinations Begin - 8 A.M.	Monday, May 5
Second Semester Ends - 5 P.M.	Saturday, May 10
Commencement	Sunday, May 11

BOARD OF TRUSTEES
Bloomsburg State College

(as of January, 1974)

Mr. William E. Booth	Danville
Mr. Daniel M. Burkholder	Denver
Mr. Frank D. Croop, Vice Chairman	Berwick
Mr. Frank M. Fay	Hazleton
Mr. John J. Kubeika	St. Clair
Mr. Joseph M. Nespoli	R.D. 2, Berwick
Mr. Richard K.Walton	Berwick
Dr. Edwin Weisbond, Secretary	Mount Carmel
Mr. William Zurick, Chairman	Shamokin

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Mr. Stephen A. Andrejack	Students
Mr. William A. Acierno	Faculty
Mr. James D. Hower	Non-Instructional Staff

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Commonwealth of Pennsylvania

John C. Pittenger, *Secretary of Education*
Chairman, Board of State College Presidents
Ex-Officio Member, Board of Trustees

David W. Hornbeck, *Deputy Secretary of Education*
Jerome M. Ziegler, *Commissioner for Higher Education*

BOARD OF STATE COLLEGES AND UNIVERSITY DIRECTORS

(as of January, 1974)

Arthur B. Sinkler, *Chairman - Lancaster*

Patricia Matthews Coghlan - *Beaver Falls*
Edward L. Dardanell - *Monroeville*
Andrew N. Farnese - *Philadelphia*
Rebecca F. Gross - *Lock Haven*
Jo Hays - *State College*
L. Robert Kimball - *Ebensburg*
Caryl M. Kline - *Pittsburgh*
Percy D. Mitchell - *Williamsport*
C. Trent Perry - *Harrisburg*
Irving O. Murphy - *Fairview*
Bernard F. Scherer - *Greensburg*
Charles S. Stone, Jr. - *Philadelphia*
Dr. John B. Veltri - *Pittsburgh*
James W. Wallace - *Pittsburgh*

James H. McCormick

Dayton S. Pickett

ADMINISTRATION AND FACULTY 1973-74

(As of November, 1973)

JAMES H. McCORMICK — *President*
B.S., Indiana University of Pennsylvania; M.Ed., Ed.D., University Of Pittsburgh (1973)

DAYTON S. PICKETT — *Vice-President for Academic Affairs Dean of the Faculties*
B.S., United States Military Academy; M.S., Iowa State University; Ph.D., University of Denver (1972)

DON B. SPRINGMAN — *Vice-President for Administrative Services*
B.A., Michigan State University; M.A., Eastern Michigan University; Ed.D., Western Reserve University (1971)

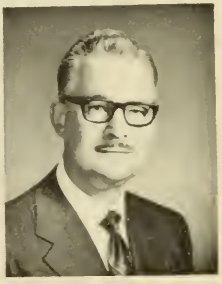
JERROLD A. GRIFFIS — *Vice-President for Student Life*
B.S., West Chester State College; M.Ed., Ohio University; Ed.D., The Pennsylvania State University (1971)

BOYD F. BUCKINGHAM — *Associate Vice-President for Development and External Relations*
B.S., Bloomsburg State College; M.S., Bucknell University (1953)

ROBERT L. BUNGE — *Registrar*
B.S., Bloomsburg State College; M.S., Bucknell University (1964)

Jerrold A. Griffis

Don B. Springman



Boyd F. Buckingham

Elton Hunsinger

William G. Williams

Hobart F. Heller

JESSE A. BRYAN, Associate Professor — *Director of Educational Opportunity Program*
A.B., Johnson C. Smith University; M.Ed., Temple University (1973)

CHARLES H. CARLSON — *Dean, School of Graduate Studies (on leave)*
B.A., San Jose State College; M.A., Ed.,D., Teachers College, Columbia University (1959)

T. L. COOPER — *Director of Admissions*
A.B., Morehead State University; M.Ed., The Pennsylvania State University (1970)

THOMAS A. DAVIES, JR. — *Director of Career Development and Placement*
B.A., Waynesburg College; M.Ed., Duquesne University (1964)

FRANK S. DAVIS, JR. — *Director of Computer Services Center*
B.S., M.Ed., Shippensburg State College (1966)

EDSON J. DRAKE — *Dean, School of Arts and Sciences*
B.A., University of Notre Dame; M.A., Ph.D., Georgetown University (1964)

C. STUART EDWARDS — *Dean, School of Professional Studies*
B.S., Bloomsburg State College; M.Ed., Ed.D., The Pennsylvania State University (1958)

E. BUREL GUM — *Associate Director of Admissions*
B.S., Bloomsburg State College; M.S.B.A., Bucknell University (1970)

HOBART F. HELLER — *Dean, School of Graduate Studies, and Director of Research Activities (Acting)*
B.S., Gettysburg College; M.A., Ph.D., Columbia University (1970)

KENNETH C. HOFFMAN — *Director of Publications*
B.A., The Pennsylvania State University (1970)

ELTON HUNSINGER — *Administrator of Campus Services*
B.S., East Stroudsburg State College; M.A., Bucknell University (1961)

WILLIAM L. JONES — *Assistant Dean of the Faculties, and Coordinator for Academic Advisement*
B.S., M.Ed., Ed.D., University of Nebraska (1964)

PHILLIP H. KRAUSE — *Admissions Counselor*
B.A., M.Ed., The Pennsylvania State University (1972)

PAUL G. MARTIN — *Business Manager*
B.S., Bloomsburg State College (1950)

MARILYN MUEHLHOF, C.P.S. — *Secretary to the President*

Edson J. Drake

C. Stuart Edwards

Emory W. Rarig, Jr.

ROBERT G. NORTON — *Associate Professor*
Assistant to the President (Acting)
B.S., Slippery Rock State College; M.Ed., University of Pittsburgh (1962)

EDWIN L. NOYCE — *Educational Systems Specialist*
B.S., M.S., Kansas State University (1972)

EMORY W. RARIG, JR. — *Dean, School of Business*
B.S., Bloomsburg State College; M.A., Ed.D., Teachers College, Columbia University (1968)

WILLIAM V. RYAN — *Director of Library Services*
Associate Professor
A.B., John Carroll Unviersity; M.A., M.S.L.S., Case-Western Reserve; M.A., University of Notre Dame (1973)

MERRITT W. SANDERS — *Director of Institutional Research*
A.B., B.D., Drew University; Ph.D., New York University (1966)

KENNETH D. SCHNURE — *Assistant Registrar*
B.S., Bloomsburg State College (1970)

WILLIAM G. WILLIAMS — *Special Advisor for Campus Relations*
A.B., Gettysburg College; J.D., Dickinson School of Law (1971)

EUGENE S. WITHERUP, Instructor — *Student Data Base Manager*
A.B., St. Mary's Seminary and University, Baltimore; M.B.A., University of Pittsburgh (1973)

RICHARD O. WOLFE — *Director, Continuing Education and Summer Sessions (Acting)*
B.S., Bloomsburg State College; M.Ed., Rutgers University; Ed.D., University of Pittsburgh (1973)

FACULTY 1973-1974 ACADEMIC YEAR

(as of November 1, 1973)

JOHN H. ABELL, Instructor — *Director of Housing*
B.A., M.Ed., St. Lawrence University (1973)

WILLIAM A. ACIERNO, Associate Professor — *Speech*
B.A., University of Pittsburgh; M.F.A., Carnegie Institute of Technology (1966)

BRUCE E. ADAMS, Professor — *Geography*
B.S., Lock Haven State College; M.Ed., Ed.D., The Pennsylvania State University (1956)

H. M. AFSHAR, Professor — *Educational Studies and Services*
B.A., University of Teheran; M.Ed., Ed.D., University of Florida (1966)

RICHARD D. ALDERFER, Associate Professor — *Speech*
B.A., Bluffton College; M.Ed., Temple University (1967)

BEN C. ALTER, Assistant Professor — *Foreign Languages*
B.A., Susquehanna University; M.Ed., University of Maine (1964)

M. DALE ANDERSON, Associate Professor — *English*
B.S.L., Nebraska Christian College; M.A., Fort Hays Kansas State College (1965)

RICHARD G. ANDERSON, Associate Professor — *History*
B.A., Western Kentucky State College; M.A., Ph.D., Texas Christian University (1968)

WILLIAM D. ANDRES, Instructor — *Assistant Director of Financial Aid*
B.S., Bloomsburg State College; M.B.A., University of Scranton (1972)

BENJAMIN S. ANDREWS, Associate Professor — *Communication Disorders*
B.S., University of Virginia; M.A., State University of Iowa (1968)

JOAN M. AUTEN, Associate Professor — *Health, Physical Education and Athletics*
B.S., West Chester State College; M.Ed., East Stroudsburg State College (1968)

RAYMOND E. BABINEAU, Associate Professor — *Secondary Education*
B.A., M.A., Montclair State College (1969)

HAROLD J. BAILEY, Assistant Professor — *Mathematics*
B.S., Albright College; M.Ed., The Pennsylvania State University (1969)

JOHN S. BAIRD, JR., Assistant Professor — *Psychology*
B.A., University of Virginia; M.S., Ph.D., North Carolina State University (1971)

J. WESTON BAKER, Assistant Professor — *Business*
B.S., University of California at Berkeley; M.B.A., M.A., Washington State University (1969)

MARY E. BARRALL, Assistant Professor — *Special Education*
B.S., Bloomsburg State College; M.Ed., University of Delaware (1973)

DONALD R. BASHORE, Associate Professor *Psychology*
B.A., Susquehanna University; M.Ed., The Pennsylvania State University (1960)

CONRAD A. BAUTZ, Professor *Chairman, Health Physical Education, and Athletics*
B.S., Brooklyn College; M.S., University of Illinois; Ed.D., Teachers College, Columbia University (1972)

UJAGAR S. BAWA, Professor *Economics*
B.A., M.A., Punjab University; A.M., University of Pennsylvania; Ph.D., Cornell University (1970)

CHARLES M. BAYLER, Associate Professor *Business*
B.S., Susquehanna University; M.S.B.A., C.P.A., Bucknell University (1965)

KARL A. BEAMER, Assistant Professor *Art*
B.S., Kutztown State College; M.F.A., The Pennsylvania State University (1972)

STEPHEN D. BECK, Professor *Chairman, Mathematics*
B.S., Tufts University; M.S., Iowa State University; Ph.D., Rensselaer Polytechnic Institute (1971)

HENRIETTA C. BEHRANS, Assistant Professor *Elementary Education*
B.S., Glassboro State College; M.S., Ed.D., University of Pennsylvania (1973)

BARRETT W. BENSON, Professor *Chairman, Chemistry*
A.B., Middlebury College; Ph.D., University of Vermont (1967)

RODRICK CLARK BOLER, Assistant Professor *Health, Physical Education, and Athletics*
B.S., M.A., University of Alabama (1968)

CHARLES M. BRENNAN, Associate Professor *Mathematics*
B.S.Ed., Bloomsburg State College; M.A., Montclair State College (1966)

STEPHEN M. BRESETT, Professor *Health, Physical Education, and Athletics*
B.S., P.E.D., Springfield College; M.Ed., Rutgers University (1969)

RICHARD J. BROOK, Associate Professor *Philosophy*
B.A., Antioch College; M.A., Columbia University; Ph.D., New School, N.Y.C. (1967)

LEROY H. BROWN, Associate Professor *Mathematics*
B.S., Lock Haven State College; M.Ed., The Pennsylvania State University (1965)

JAMES D. BRYDEN, Professor *Chairman, Communication Disorders*
B.S., College of William and Mary; M.Ed., Ed.D., University of Virginia (1969)

DONALD A. CAMPLESE, Associate Professor *Psychology*
M.A., Ed.D., West Virginia University (1972)

KAY F. CAMPLESE, Assistant Professor *Counselor*
A.B., M.A., West Virginia University (1969)

WILLIAM L. CARLOUGH, Professor *Chairman, Philosophy*
B.A., Hope College; B.D., Western Theological Seminary; S.T.M., General Theological Seminary; Ph.D., New York University (1964)

C. WHITNEY CARPENTER, II, Professor — *Foreign Languages*
A.B., Cornell University; M.A., University of Southern California; M.S.Ed., Bucknell University; Ph.D., New York University (1966)

JENNIE H. CARPENTER, Assistant Professor — *Assistant Dean of Student Life*
B.A., University of Oklahoma; M.A., University of Alabama (1968)

WALTER A. CARTER, Instructor — *Art*
B.S., Millersville State College (1972)

WILLARD A. CHRISTIAN, Associate Professor — *Business*
B.S., Bloomsburg State College; M.S., Bucknell University (1968)

CHARLES W. CHRONISTER, Assistant Professor — *Health, Physical Education, and Athletics*
B.S., M.Ed., East Stroudsburg State College (1971)

MARGARET M. L. CHU, Assistant Professor — *Chemistry*
A.A., Sacramento City College; B.A., Sacramento State College (1973)

GARY F. CLARK, Instructor — *Art*
B.F.A., Maryland Institute College of Art (1973)

STEVEN L. COHEN, Assistant Professor — *Psychology*
B.A., Oakland University (1973)

JAMES E. COLE, Professor — *Biological Sciences*
B.A., M.A., Western Michigan University; Ph.D., Illinois State University (1968)

JOHN H. COUCH, Assistant Professor — *Music*
A.R.C.T., Royal Conservatory of Music, Toronto; M.M., Indiana University School of Music (1972)

JAMES B. CREASY, Associate Professor — *Business*
B.S., Bloomsburg State College; M.S.B.A., Bucknell University (1960)

SYLVIA H. CRONIN, Associate Professor — *Music*
B.Ed., M.Ed., Rhode Island College of Education; M.Ed., The Pennsylvania State University (1964)

ROBERT G. DAVENPORT, Associate Professor — *Counselor*
B.S., M.S., Bucknell University (1961)

WILLIAM K. DECKER, Associate Professor — *Chairman, Music*
B.S., M.M., Eastman School of Music of the University of Rochester (1963)

JOSEPH A. DeFELICE, Assistant Professor — *Sociology and Anthropology*
B.S., The Pennsylvania State University; M.S.W., University of Pittsburgh (1970)

BLAISE DELNIS, Associate Professor — *Foreign Languages*
A.B., Lukow University; M.A., Fordham University (1965)

JOHN E. DENNEN, Assistant Professor — *Business*
B.S., Bloomsburg State College; M.S., Bucknell University (1965)

RICHARD S. DEVLIN, Instructor — *English*
B.S., Mansfield State College (1969)

JOHN C. DIETRICH, Associate Professor — *History*
A.B., Capital University; M.A., Ohio State University (1965)

LESTER J. DIETTERICK, Assistant Professor — *Business*
B.S., M.Ed., Bloomsburg State College; M.S.B.A., Bucknell University (1966)

BERNARD C. DILL, Professor *Business*
B.S., M.B.A., The Pennsylvania State University; D.B.A., George Washington University (1968)

BARBARA M. DILWORTH, Associate Professor *Economics*
B.A., Chestnut Hill College; M.A., University of Pennsylvania (1966)

DOYLE G. DODSON, Assistant Professor *Business*
B.S., M.Ed., Bloomsburg State College (1967)

VIRGINIA C. DOERFLINGER, Assistant Professor *Speech*
B.S., New York University; M.A., Columbia University (1968)

RICHARD J. DONALD, Assistant Professor *Elementary Education*
B.S., East Stroudsburg State College; M.S., Kansas State University (1968)

VIRGINIA A. DUCK, Assistant Professor *English*
B.A., The Pennsylvania State University; M.A., Bucknell University (1958)

ROBERT L. DUNCAN, Associate Professor *Director of Financial Aid*
A.B., DePauw University; M.S., Butler University (1969)

WILLIAM D. EISENBERG, Associate professor *English*
B.A., University of Delaware; M.A., Lehigh University (1960)

DONALD E. ENDERS, Professor *Secondary Education*
B.S., Gettysburg College; M.A., New York University; Ed.D., The Pennsylvania State University (1968)

JOHN A. ENMAN, Professor *Geography*
B.A., University of Maine; M.A., Harvard University; Ph.D., University of Pittsburgh (1959)

PHILLIP A. FARBER, Professor *Biological Sciences*
B.S., King's College; M.S., Boston College; Ph.D., Catholic University (1966) (Sabbatical leave, 1973-74, first semester)

RONALD A. FERDOCK, Associate Professor *English*
A.B., St. Vincent College; M.A., The Pennsylvania State University (1965)

JOHN R. FLETCHER, Assistant Professor *Biological Sciences*
B.S., M.Ed., Bloomsburg State College (1969)

VICTOR X. FONGEMIE, Associate Professor *Chairman, Psychology*
B.A., M.A., Ph.D., University of Maine (1970)

ARIADNA FOUREMAN, Professor *Chairman, Foreign Languages*
B.A., M.A., Ph.D., The Ohio State University (1969)

WENDELIN R. FRANTZ, Professor *Chairman, Geography*
A.B., College of Wooster; M.S., Ph.D., University of Pittsburgh (1968)

ERICH F. FROHMAN, Associate Professor *Speech*
B.A., Columbia College; M.A., Syracuse University (1966)

WILLIAM J. FROST, Instructor *Library, Reference Librarian*
B.A., Old Dominion University; M.L.S., Rutgers Graduate School of Library Service (1972)

LAWRENCE B. FULLER, Assistant Professor *English*
A.B., Dartmouth College; M.A., Columbia University (1971)

FRANCIS J. GALLAGHER, Assistant Professor *Business*
A.B., Stonehill College; M.B.A., Temple University (1972) (on leave 1973-74)

P. JOSEPH GARCIA, Assistant Professor *Physics*
B.S., Kent State University; M.S., New Mexico Highlands University (1968)

HALBERT F. GATES, Professor *Chairman, Physics*
B.S., Milwaukee State Teachers College; Ph.M., University of Wisconsin; Ph.D., Michigan State University (1969)

MICHAEL W. GAYNOR, Associate Professor *Psychology*
B.A., Muhlenberg College; M.S., Lehigh University; Ph.D., Colorado State University (1970)

GEORGE J. GELLOS, Associate Professor *Biological Sciences*
B.S., Muhlenberg College; M.S., Ohio University; Ph.D., The Pennsylvania State University (1965)

MARTIN M. GILDEA, Associate Professor *Political Science*
B.A., St. Vincent College; M.A., University of Notre Dame (1966) (Sabbatical leave first semester 1973-74)

NANCY E. GILL, Assistant Professor *English*
B.A., M.A. Washington State University (1968)

NORMAN M. GILLMEISTER, Assistant Professor *Geography*
B.A., Harvard College; M.A., Indiana University; M.A., Ph.D., Harvard University (1973)

GLENN A. GOOD, Associate Professor *Secondary Education*
B.S., M.S., Bucknell University; Ed.D., The Pennsylvania State University (1969)

DAVID E. GREENWALD, Assistant Professor *Sociology and Anthropology*
B.A., University of Pennsylvania; M.A., Ph.D., University of California at Berkeley (1970)

JoANNE S. GROWNEY, Associate Professor *Mathematics*
B.S., Westminster College; M.A., Temple University; Ph.D., University of Oklahoma (1969)

ERVENE F. GULLEY, Assistant Professor *English*
A.B., Bucknell University; M.A., Lehigh University (1970)

HANS KARL GUNTHER, Professor *History*
A.B., M.A., Washington University; Ph.D., Stanford University (1965)

DAVID J. HARPER, Professor *Physics*
B.S., Ph.D., University of Nottingham (1966)

PAUL G. HARTUNG, Associate Professor *Mathematics*
B.A., Montclair State College; M.A., University of Colorado; Ph.D., The Pennsylvania State University (1968)

JOHN E. HARTZEL, Assistant Professor *Business*
B.S., Bloomsburg State College; M.Ed., Lehigh University (1970)

RICHARD B. HAUPT, Assistant Professor *Assistant Dean of Student Life*
B.S., M.Ed. Shippensburg State College (1968)

MICHAEL HERBERT, Professor *Biological Sciences*
B.S., University of Maryland; Ph.D., Lehigh University (1963)

DIANNE F. HERMAN, Instructor *Political Science*
B.A., University of California at Berkely; M.A., The Pennsylvania State University (1973)

CHARLOTTE M. HESS, Assistant Professor *Elementary Education*
B.S., M.Ed., Bloomsburg State Collesge (1972)

ROBERT B. HESSERT, Associate Professor *Psychology*
B.A., M.S., The Pennsylvania State University; Ph.D., University of Pittsburgh (1972)

NORMAN L. HILGAR, Associate Professor *Business*
B.S., Grove City College; M.A., University of Pittsburgh (1956)

CRAIG L. HIMES, Professor *Chairman, Biological Sciences*
B.S., Clarion State College; M.S., Ph.D., University of Pittsburgh (1961)

CLAYTON H. HINKEL, Associate Professor *Business*
B.S., Bloomsburg State College; M.Ed., Temple University (1947)

CARL M. HINKLE, Assistant Professor *Health, Physical Education, and Athletics*
B.S., Montana State University; M.S., Ithaca College (1971)

JOHN A. HOCH, Professor *History*
A.B., Ed.D., The Pennsylvania State University; M.A., Bucknell University (1946) (Sabbatical leave, 1973-74)

MELVILLE HOPKINS, Professor *Chairman, Speech*
A.B., M.A., Bucknell University; Ph.D., The Pennsylvania State University (1960)

LEE C. HOPPLE, Professor *Geography*
B.S., Kutztown State College; M.S., Ph.D., The Pennsylvania State University (1961)

MARK A. HORNBERGER, Assistant Professor *Geography*
B.S., Bloomsburg State College; M.A., Southern Illinois University (1970)

RUSSELL E. HOUK, Associate Professor *Health, Physical Education, and Athletics*
B.A., Lock Haven State College; M.S., Bucknell University (1957)

JOHN R. HRANITZ, Assistant Professor *Elementary Education*
B.S., M.Ed., Indiana University of Pennsylvania (1972)

JAMES H. HUBER, Associate Professor *Sociology and Anthropology*
B.S., Bloomsburg State College; M.A., University of Delaware; Ph.D., The Pennsylvania State University (1972)

ROBERT W. HUTCHISON, Assistant Professor *Business*
B.S., Grove City College; M.B.A., Wayne State University (1973)

RALPH R. IRELAND, Professor *Sociology and Anthropology*
B.A., M.A., University of Toronto; Ph.D., University of Chicago (1969)

CHARLES G. JACKSON, Professor *Political Science*
A.B., Westminster College; M.A., University of North Carolina; Ph.D., The Pennsylvania State University (1960)

I. SUE JACKSON, Assistant Professor *Sociology and Anthropology*
A.B., Lycoming College; M.S.S.W., Graduate School of Social Work, University of Texas (1973)

MARY LOU JOHN, Associate Professor *Foreign Languages*
B.S., Bloomsburg State College; M.A., Bucknell University (1959)

BRIAN A. JOHNSON, Associate Professor *Geography*
B.S., M.Ed., Indiana University of Pennsylvania (1967)

LAURIE JOHNSON, Instructor — *Library*
Assistant Catalog Librarian
A.B., Wilson College; M.S., Drexel University (1973)

WARREN I. JOHNSON, Associate Professor — *Chairman, Elementary Education*
B.S., West Chester State College; M.Ed., The Pennsylvania State University (1952)

PRAKASH C. KAPIL, Associate Professor — *Political Science*
B.A., M.A., University of Delhi; M.A., University of Rhode Island (1967)

ANDREW J. KARPINSKI, Professor — *Chairman, Special Education*
B.S., M.Ed., Ed.D., The Pennsylvania State University (1967)

MARTIN M. KELLER, Associate Professor — *Secondary Education*
B.S., Indiana State College; M.Ed., University of Pittsburgh (1961)

MARGARET A. KELLY, Assistant Professor — *Library, Assistant Reference Librarian*
A.B., College of New Rochelle; M.L.S., University of Pittsburgh (1969)

DAVID KHALIFA, Assistant Professor — *Business*
B.S., North Carolina State University at Raleigh; M.B.A., The Pennsylvania State University (1971)

JEROME J. KLENNER, Professor — *Biological Sciences*
B.S., St. Francis College; M.S., University of Pittsburgh; Ph.D. University of Notre Dame (1966)

ROBERT L. KLINEDINST, Associate Professor — *Mathematics*
B.A., Gettysburg College (1960)

JUDITH A. KONSCOL, Assistant Professor — *Assistant Dean of Student Life*
B.A., North Dakota State University; M.A., Colorado State College (1969)

CHARLES C. KOPP, Professor — *English*
B.S., Frostburg State College; M.A., West Virginia University; Ph.D., The Pennsylvania State University (1960)

ROBERT B. KOSLOSKY, Assistant Professor — *Art*
B.S., M.Ed., Kutztown State College (1970)

JULIUS R. KROSCHEWSKY, Professor — *Biological Sciences*
B.A., M.A., Ph.D., University of Texas (1967)

L. RICHARD LARCOM, Assistant Professor — *Psychology*
B.S., M.A., Ph.D., Ohio State University (1972)

OLIVER J. LARMI, Associate Professor — *Philosophy*
A.B., Dartmouth College; Ph.D., University of Pennsylvania (1968)

MARGARET READ LAUER, Assistant Professor — *English*
A.B., University of Michigan; M.A., Indiana University (1966)

JAMES R. LAUFFER, Associate Professor — *Geography*
B.S., Allegheny College; M.S., University of Hawaii (1966)

WOO BONG LEE, Assistant Professor — *Economics*
B.S., Delaware Valley College; M.S., Ph.D., Rutgers University (1972)

MARGARET LEFEVRE, Professor — *Communication Disorders*
A.B., Western Michigan University; M.A., University of Minnesota; Ph.D., Western Reserve University (1964)

ELLEN L. LENSING, Professor *Business*
B.Ed., Wisconsin State College; M.S., Ph.D., University of Wisconsin (1963)

MILTON LEVIN, Associate Professor *Secondary Education*
B.S., West Chester State College; M.Ed., Temple University; M.S., University of Pennsylvania (1967)

MICHAEL M. LEVINE, Assistant Professor *Psychology*
B.S., Brooklyn College; M.A., Western Michigan College; Ph.D., University of Hawaii (1971)

CYRIL A. LINDQUIST, Professor *Business*
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WILLIAM BAILEY, JR.	*Manager, College Store*
GEORGE R. BIRNEY	*Personnel Officer*
GLENN BLYLER	*Assistant Purchasing Agent*
JAMES CARLIN B.S., M.Ed., Bloomsburg State College	*Student Life Accountant*
PAUL L. CONARD B.S., Bloomsburg State College	*Assistant Business Manager*
BRUCE C. DIETTERICK B.A., The Pennsylvania State University	*Information Specialist*
NELLIE EDWARDS	*Duplicating Supervisor*
DONALD E. HOCK B.A., Bloomsburg State College	*Budget Analyst*
C. DONALD HOUSENICK	*Assistant Director of Computer Services Center*
ELIZABETH KEISER	*Clerical Supervisor (Payroll)*
CHARLES A. ROBBINS	*Superintendent of Grounds and Buildings*
KEITH WAGNER	*Chief of Law Enforcement and Safety*

Faculty Emeriti

HARVEY A. ANDRUSS, President Emeritus (September, 1969)*
LUCILE J. BAKER (May, 1956)
IVA MAE V. BECKLEY (May, 1970)
ERNEST H. ENGELHARDT (August, 1968)
BEATRICE M. ENGLEHART (August, 1970)
HOWARD F. FENSTEMAKER (May, 1963)
WILLIAM C. FORNEY (May, 1959)
C. M. HAUSKNECHT (July, 1950)
EDNA J. HAZEN (January, 1958)
RALPH S. HERRE (May, 1972)
ELLAMAE JACKSON (August, 1971)
ROYCE O. JOHNSON (May, 1973)
ELINOR R. KEEFER (July, 1968)
MARGUERITE W. KEHR (June, 1953)
PEARL MASON KELLER (May, 1945)
HAROLD H. LANTERMAN (July, 1973)
MARY E. MacDONALD (May, 1969)
LUCY McCAMMON (January, 1958)
ETHEL A. RANSON (January, 1954)
HERBERT H. REICHARD (May, 1971)
KENNETH A. ROBERTS (August, 1972)
J. ALMUS RUSSELL (May, 1965)
WALTER S. RYGIEL (January, 1968)
M. BEATRICE METTLER SAHLE (May, 1969)
RUSSELL F. SCHLEICHER (May, 1962)
ANNA GARRISON SCOTT (May, 1956)
CECIL C. SERONSY (May, 1973)
WILLIAM B. STERLING (May, 1973)
GEORGE G. STRADTMAN (August, 1972)
MARGARET E. WALDRON (January, 1956)
ELIZABETH B. WILLIAMS (August, 1969)
GRACE H. WOOLWORTH (May, 1956)

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Adjunct Professors

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JAMES L. BENDER, B.S., MT (ASCP), *Education Coordinator, Robert Packer Hospital, Sayre*

CAROL J. DURKA, MT (ASCP), *Educational Coordinator, Sacred Heart Hospital*

JOHN W. ELMAN, M.D., *Director, Abington Memorial Hospital*

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GEORGE E. McNEAL, M.D., *Director, Mercy Catholic Medical Center, Darby*

JOHN J. MORAN, M.D., *Director, Geisinger Medical Center, Danville*

ANDREW N. NOTARTOMAS, B.S., MT (ASCP), *Assistant Director, Scanton State General Hospital*

WARD M. O'DONNELL, M.D., *Director, Lancaster General Hospital*

C. E. RODRIGUEZ, M.D., *Director, Wilkes-Barre General Hospital*

HELEN RUANE, MT (ASCP), *Education Coordinator, Wilkes-Barre General Hospital*

BARBARA J. SCHEELJE, MT (ASCP), *Educational Coordinator, Abington Memorial Hospital*

CHRISTINE SMULL, Ph.D., *Supervisor, Medical Technology Program, Geisinger Medical Center, Danville*

DONALD R. WEAVER, M.D., *Director, Robert Packer Hospital, Sayre*

Adjunct Faculty
Med. Tech. Program

Abington Memorial Hospital
Abington, Pa.

JOHN W. ELMAN, M.D, *Director*
MS. BARBARA J. SCHEELJE, MT (ASCP), *Educational Coordinator*

Geisinger Medical Center
Danville, Pa.

JOHN J. MORAN, M.D., *Director*
CHRISTINE SMULL, Ph.D., *Supervisor, Medical Technology Program*

Lancaster General Hospital
Lancaster, Pa.

WARD M. O'DONNELL, M.D., *Director*
JOSEPH J. GALLOGHER, *Director, Education and Training*

Mercy Catholic Medical Center
Darby, Pa.

GEORGE E. McNEAL, M.D., *Director*
MRS. ESTOLLE GROSS, *Educational Coordinator*

Robert Packer Hospital
Sayre, Pa.

DONALD R. WEAVER, M.D., *Director*
JAMES L. BENDER, B.S., MT (ASCP), *Education Coordinator*

Sacred Heart Hospital
Allentown, Pa.

F. V. KOSTELNIK, M.D., *Director*
MRS. CAROL J. DURKA, MT (ASCP), *Educational Coordinator*

Scranton State General Hospital
Scranton, Pa.

WILLIAM J. ANTOGNOLI, M.D., *Director*
ANDREW N. NOTARTOMAS, B.S., MT (ASCP), *Assistant Director*

Wilkes-Barre General Hospital
Wilkes-Barre, Pa.

C. E. RODRIQUEZ, M.D., *Director*
MS. HELEN RUANE, MT (ASCP), *Education Coordinator*

1. GENERAL INFORMATION

1.1 INTRODUCTION

Bloomsburg State College, as one of fourteen state-owned institutions of higher education, has been charged by the Commonwealth of Pennsylvania to serve as "...a center of learning for the best possible education of the youth of Pennsylvania in the arts and sciences and to provide able and dedicated teachers..."

The arts and sciences are regarded as fundamental to all of the activities implied by this charge. During the past several years, the College has moved to strengthen the academic departments and to expand the range of services through the addition of pre-professional programs, continuing education, programs in the health related sciences and business administration.

Although primarily dedicated to undergraduate work, the College is continuing to strengthen the departments at the master's degree level in the academic disciplines and in teacher education.

Bloomsburg State College welcomes qualified students, faculty and staff without regard to racial, religious or ethnic backgrounds.

1.2 LOCATION

The Town of Bloomsburg, county seat of Columbia County, is an industrial, trading, and residence community of 11,000 located on Route 11, 80 miles north of Harrisburg. It is within two miles of two interchanges of Interstate 80.

Bloomsburg is served by the Greyhound and Continental Trailways bus lines. Commerical airports are accessible at Hazleton near Route 80, at Wilkes-Barre-Scranton on Route 81, and at Williamsport; each is about an hour's drive from Bloomsburg.

1.3 HISTORY

An academy "to teach youth the elements of a classical education" was established in Bloomsburg in 1839. The academy continued with varied fortunes until 1856, when a charter was prepared and stock issued to reorganize as **Bloomsburg Literary Institute.** A building now known as Carver Hall in memory of Henry Carver, principal at the time, was erected in 1867 on the site of the present campus.

Largely through the efforts of J. P. Wickersham, Superintendent of Public Instruction, **Bloomsburg Literary Institute** became **Bloomsburg Literary Institute and State Normal School** in 1869; it continued under this name and organization until 1916 when it was purchased by the Commonwealth and called **Bloomsburg State Normal School.**

Although the high school movement was making the preparatory curriculum unnecessary, it was continued until 1920; meanwhile a two-year post high school program dedicated to professional preparation of teachers for the elementary schools was being inaugurated and strengthened. Teacher education became the sole institutional purpose in 1920.

In 1927, the name of the school was changed to **Bloomsburg State Teachers College** and authority was granted to offer the degree, Bachelor of Science in Education, for curricula for teaching in secondary and elementary schools. This, together with changes in teacher certification, led to the phasing out of the non-degree curricula. In 1930, the offerings were extended to include the special field of business education. A division of Special Education was inaugurated in 1957, although the College had offered certification programs in this area as early as the 1940's.

In 1960 the name of the school was changed to **Bloomsburg State College**; authorization was received shortly thereafter to grant the degree, Bachelor of Arts, for liberal arts programs in humanities, social sciences, and natural sciences. In 1960 graduate study leading to the Master of Education degree was inaugurated; in 1968 initial approval was received for the degree, Master of Arts and in 1970 for the degree, Master of Science.

Current efforts are directed toward development as a multiple-purpose college offering liberal arts and teacher education curricula at the undergraduate and master's degree levels, and business and other professional curricula in vocations other than teaching as these are suited to the resources of the College.

1.4 ACCREDITATION

Bloomsburg State College is fully accredited by the Middle States Association of Colleges and Secondary Schools, the National Council for the Accreditation of Teacher Education, and the Pennsylvania State Board of Education. The college is also preparing to meet the criteria for specific professional agencies.

1.5 BUILDINGS AND FACILITIES

CAMPUS

The campus of Bloomsburg State College occupies two tracts called the Lower Campus and Upper Campus, with total area of 173 acres.

The Lower Campus comprises the original campus and adjacent areas subsequently acquired. It contains the residence halls, administration building, auditorium, library, academic buildings and recreation areas. The Upper Campus, a half mile from the Lower Campus, was once the Bloomsburg Country Club; it contains the E. H. Nelson Gymnasium-Field House and is the site of the stadium under construction. Long range plans presume further development of the Upper Campus for academic purposes.

INSTRUCTIONAL BUILDINGS

Bakeless Center for the Humanitites, completed in 1970, is an air-conditioned building containing classrooms, lecture halls, faculty offices, and an exhibit area. It is used primarily by the departments of English, Art, and Foreign Languages. The building was named for the Bakeless family, including Professor

Oscar H. Bakeless, a graduate of the school and former distinguished member of the faculty; his wife, Sara H. Bakeless, a graduate and former faculty member; their son, Dr. John E. Bakeless, a graduate of the college, an author, and a recipient of the Alumni Distinguished Service Award; their daughter, Mrs. Alex Nason, a graduate and benefactor of the college; and their daughter-in-law, Mrs. Katherine L. Bakeless, a graduate of the school and a nationally-known author.

Hartline Science Center, completed in 1968, is an airconditioned facility with classrooms, lecture halls, seminar rooms, laboratories, faculty offices and an exhibit area; it accommodates the departments of Chemistry, Physics, Biology, and Earth and Space science. The name of the building honors Daniel S. Hartline, a former teacher of biology, and his son Dr. H. Keffer Hartline, 1968 Nobel Prize laureate and recipient of an Alumni Distinguished Service Award.

Sutliff Hall, completed in 1960, contains classrooms and faculty offices of the School of Business and laboratories and classrooms for chemistry and physics. William Boyd Sutliff for whom the building was named was a teacher of mathematics and the first Dean of Instruction of Bloomsburg State Normal School.

Benjamin Franklin Hall, completed in 1930 for use as a campus laboratory school, is now used for college classes, administrative offices, and the Computer Services Center.

Navy Hall was constructed in 1939 as a campus laboratory school but was converted during World War II for the use of candidates enlisted in the Navy V-12 Officer Training Program. It now houses the Division of Human Resources and Services and provides a number of other classrooms and offices.

Science Hall, built in 1906, contains classrooms and faculty offices which are currently used for general purposes. This building is scheduled to be razed.

Centennial Gymnasium, completed in 1939, contains a gymnasium which seats 1,200, two auxiliary gymnasiums, a swimming pool, and offices and classrooms for physical education and athletics.

E. H. Nelson Gymnasium and Field House. This building, located on the Upper Campus, was completed in 1972. It provides a varsity basketball court and folding bleachers for 2,600 spectators. The seating area can be expanded to more than 5,000. There is an indoor track and a six-lane varsity swimming pool with seating for 500 spectators. Faculty offices, handball courts, classrooms, shower and dressing areas, equipment rooms, and special

rooms for physical training and therapy are included. The building is used for health and physical education classes, varsity athletic contests, and for other activities requiring seating of large audiences.

Bus transportation is available between this building and the lower campus.

Dr. E. H. Nelson, for whom the building is named, was for many years Director of Athletics.

Recreation Areas. A recreation area on the Lower Campus provides tennis courts, a football and soccer field, and baseball diamond. These facilities are designed for use by health and physical education classes and by students and faculty members engaged in informal recreation activities.

RESIDENCE HALL, DINING ROOMS, COLLEGE UNION

Columbia Hall, completed in 1970, is a nine story residence for four hundred women. It contains lounges, study rooms, recreation areas, a special projects room, guest rooms, and apartments for counsellors.

Elwell Hall, completed in 1968, is a nine story residence hall which can accommodate 678 men. It contains recreation rooms and lounges, guest rooms, study rooms and apartments for staff. Its name honors Judge William Elwell, a former trustee of the College, George E. Elwell, his son, a graduate and former trustee, and G. Edward Elwell, his grandson, a graduate and former instructor in French.

Luzerne Hall, a four story coeducational residence hall completed in 1967, accommodates 300 students, with men and women on alternate floors. It includes lounge and recreation areas, study rooms, and apartments for counsellors.

Montour Hall and Schuylkill Hall, four story residences completed in 1964, accommodate five hundred women. Each hall is divided into two wings; each has recreation and lounge areas, study rooms, and apartments for counsellors.

Northumberland Hall, completed in 1960, accommodates two hundred women. There are lounge and recreation areas, study rooms, and apartments for counsellors. (Luzerne, Columbia, Montour, Schuylkill, and Northumberland are names of counties from which many students come to Bloomsburg.)

William W. Scranton Commons, completed in 1970, is an air-conditioned dining facility with one thousand seats and with capacity to serve two thousand students at each meal. Folding partitions permit flexibility of arrangement. A faculty dining room and two lounges are in the building. It is named for the Governor of Pennsylvania from 1963 to 1967.

College Store. This building was completed in 1956 and used until 1970 as the college Commons and from 1970 until 1973 as a temporary Union. The building has been remodeled and is now used as the College Store for the sale of textbooks and supplies.

Marguerite W. Kehr College Union. The Kehr College Union houses the Student Bank, a formal lounge, a snack bar and dining area, a multi-purpose room, mailboxes for commuting students, a game room, television room, listening room, offices for student organizations and publications, the college infirmary, an information center, and storage area. Its name honors Dr. Marguerite W. Kehr, who was for many years Dean of Women at Bloomsburg State College.

ADMINISTRATION AND SERVICE BUILDINGS

Waller Administration Building. This structure, completed in 1972, contains administrative offices, a mailroom, vaults, conference rooms, a centralized area for the Business Office and an area for receiving, storing and distributing college supplies and equipment. The building is named for D. J. Waller, Jr., who served for twenty-seven years as principal of the normal school.

Francis B. Haas Center for the Arts, completed in 1967, contains a two thousand seat auditorium with its stage planned for dramatic productions as well as general auditorium purposes; the building also contains classrooms, offices and other facilities for music, debating, and drama groups, and lounges and exhibit areas. Dr. Francis B. Haas, for whom the auditorium was named, was President of the College from 1927 to 1939. Prior to and subsequent to this period he served as the Pennsylvania State Superintendent of Public Instruction.

Andruss Library, completed in 1966, contains seating for 750 readers, shelving for 200,000 volumes, a projection room, curriculum materials center and an audio-visual materials center. It was named for Dr. Harvey A. Andruss, who served as President of the College from 1939 to 1969 and who during nine years prior to becoming president, established the division of business education and then served as Dean of Instruction.

Waller Hall, one of the historic buildings of the campus, consists of wings built at various times in the nineteenth century after a fire destroyed a dormitory in 1875. The structure will be razed in 1974 and replaced by a new residence hall.

Carver Hall, built in 1867, is the oldest building on the campus. It contains a 900 seat auditorium and the office of the Presidnet.

Buckalew House, originally the home of Charles R. Buckalew, United States Senator from 1863 to 1869 and trustee of the Normal School, was acquired by the Commonwealth for the President's home in 1926.

Maintenance Building, completed in 1970, houses offices, storage areas and workshops used by the plant maintenance engineer and his staff.

Parking Garage. A multi-level concrete structure completed in 1972 accommodates approximately 200 cars.

Athletic Fields. The new football stadium, completed in 1974, has permanent bleachers for approximately 4,000 spectators on one side of the field. The area under the bleachers provides locker rooms, offices, shower rooms, and storage areas. A baseball diamond and an outdoor track for intercollegiate competition are also part of this facility.

1.6 BLOOMSBURG FOUNDATION

The Bloomsburg Foundation was established in 1970 as a non-profit educational corporation to assist the College in functions for which state funds should not or cannot be used. The Foundation may solicit, receive and manage gifts and grants from individuals, corporations, or other foundations; its funds are used to assist the College in carrying out its educational mission. The President of the College is the president and chief executive officer of the Foundation.

1.7 CONTINUING EDUCATION

Through Continuing Education, adults are afforded opportunity to take college courses in regular college classes within the limitations of available space. College-level courses are offered also as evening classes for adults only.

Non-credit short courses, seminars, and workshops are developed to meet educational needs of industry, business, government and the community-at-large.

Additional information may be obtained from the Director of Continuing Education.

1.8 SUMMER SESSIONS

The Summer Sessions offer courses for undergraduate and graduate students and teachers in service. Students may schedule as many semester hours as there are weeks in the session. All Schools of the College participate in the summer program.

Undergraduate courses are open, without filing application, to regularly enrolled students of Bloomsburg State College who wish to enrich or accelerate their programs or make up academic deficiencies. Others must apply for admission through the Director of Admissions. Students from other colleges are admitted to a summer session upon the filing of a simplified application form supported by a letter of good standing from the chief academic officer of the college regularly attended.

Graduate courses are planned for students who wish to continue their education at the Master's degree level and/or to qualify for permanent certification.

A copy of the Summer Session Bulletin may be obtained from the Director of Summer Sessions. Application forms for undergraduate studies may be secured from the Director of Admissions; graduate students may secure application forms and a list of graduate offerings from the Dean of Graduate Studies.

1.9 GRADUATE STUDIES

Degrees

Graduate study was inaugurated in 1960 with programs leading to the Master of Education degree planned for teachers in service. In 1968, approval was granted to offer a program in history to lead to the Master of Arts degree and in 1971 a program in biology to lead to the Master of Science degree. Additional programs to lead to the Master of Arts and Master of Science degrees have been established; others are in preparation.

The objective of the programs for the degree, Master of Education, is to develop mature, professional teachers. The objective of the Master of Arts programs is to advance the student's scholarship in an academic discipline. The objective of programs leading to the Master of Science degree is to develop mature scholarship and competence especially as these are related to application.

Schedule of Classes

Graduate classes taught in the regular academic year are usually scheduled in late afternoons, evenings and Saturdays in order to provide opportunity for teachers and individuals engaged in other full-time occupations to further their education. Graduate courses are offered for full-time students in the summer terms.

Graduate Catalogue

A graduate catalogue with comprehensive descriptions of courses, programs and regulations is published annually. Requests for copies should be addressed to the Dean of Graduate Studies.

2. EXPENSES, FEES, AND REFUNDS

(Fees are subject to change without notice.)

2.1 COMMUNITY ACTIVITIES FEE

A Community Activities Fee of $30.00 per semester is charged each full-time undergraduate student. Community Activities fees finance student activities in athletics, lectures, student publications, entertainments, student organizations, etc.

2.2 BASIC FEES

Semester Fees, Full-time Undergraduate Students

The basic semester fee for full-time students who are residents of Pennsylvania is $375.00.

Fees, Part-time Students, Pennsylvania Residents

Undergraduate students who take fewer than twelve semester hours in a semester pay fees of $31.00 per semester hour.

Fees, Graduate Students, Pennsylvania Residents

Graduate students who are residents of Pennsylvania pay $42.00 per semester hour.

Fees, Out-of-State Students

Out-of-State students pay fees of $46.00 per semester hour. The definition of an Out-of-State student may be obtained from the Business Office.

Summer Session Fees

Undergraduate students who are residents of Pennsylvania pay fees at the rate of $31.00 per semester hour, with minimum fee $93.00.

Graduate students who are residents of Pennsylvania pay $42.00 per semester hour.

Out-of-State students, both undergraduate and graduate, pay $46.00 per semester hour with a minimum fee of $138.

2.3 HOUSING FEES

Residence Halls

Room and meals in a campus residence hall cost $396 per semester, $132 for a six-week summer session, $66 for a three-week summer session.

The Fall Semester fee is payable before August 15; it may be paid in two installments, $198 before August 15 and $198 before November.

Keys

A fee of $1.00 is charged for a room key or locker key. This is refunded when the key is returned.

2.4 ADVANCE PAYMENT OF FEES

An *Advance Registration Fee* of $25.00 is payable when an individual is approved for admission as an undergraduate student or when a former student is approved for readmission. This fee is credited to the first basic fee payment.

The *Community Activities Fee* for one year ($60.00) is payable when a student is approved for admission for the Fall Semester or when a former student is approved for readmission after he had been out of school for one or more semesters.

An Advance Housing deposit of $50.00 is required and payable to reserve a room and negotiate a housing contract for the academic year. This deposit must be paid prior to room assignment and is credited to the housing charge for the current semester. This deposit is refundable only under certain conditions.

2.5 RULES GOVERNING PAYMENT OF FEES

Bank drafts, post-office money orders, or checks must be made out for the exact amount of the fee.

Fees other than the Activities Fee are payable to the Commonwealth of Pennsylvania; money orders should be drawn on the Post Office at Harrisburg.

Activities Fees are payable to Community Activities; money orders must be drawn on the Post Office at Bloomsburg.

Fees are due at times determined by the Business Office.

The College reserves the right to withhold information concerning the record of a student who is in arrears in fees or other charges, including student loans.

The College does not offer a time payment plan. Billing statements of student accounts are mailed prior to registration each semester. Failure to comply with the directive concerning payment excludes the student from registration.

Inquiries concerning fees may be addressed to the Business Manager.

2.6 MEALS FOR OFF-CAMPUS RESIDENTS

Students who live off-campus may take their meals in the dining halls if space is available, at the rate of $180 per semester.

Daily Rate for Transients

The daily rate for transient meals and lodging is:

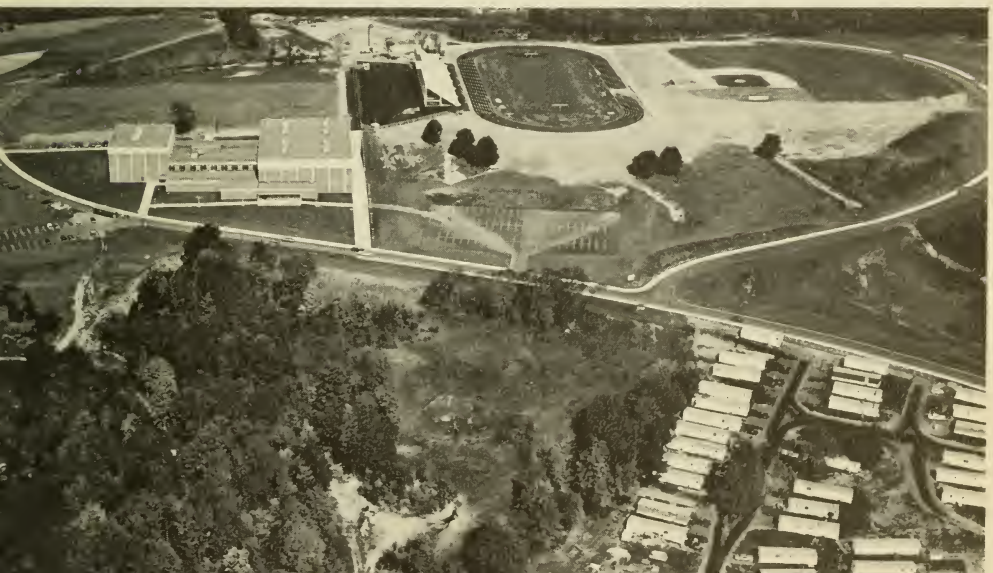
Breakfast	$ .65
Lunch	.85
Dinner	1.25
Room	1.50

Arrangements for room guests must be approved by the resident dean of the hall where the guest will be housed.

2.7 MISCELLANEOUS FEES

Diploma Fees

A Diploma Fee is charged at graduation as follows: Baccalaureate degree, $5.00; Master's degree, $10.00.



Transcript Fee

A fee of $1.00 is charged for the second and each subsequent transcript of a student's record.

Late Registration Fee

A late registration fee of $10.00 is charged a student who completes registration after the official registration date.

Schedule Change Fee

A fee of $2.00 is charged a student who at his own initiative changes his class schedule after it has been accepted by the scheduling officer.

Application Fee

An Application Fee of $10.00 must be paid by each applicant, undergraduate and graduate, at the time of request for registration.

Student Community Building Fee

A fee of $10.00 per semester is charged for regular sessions; $1.00 for one to three weeks summer session, and $2.00 for four to six weeks summer session.

2.8 REFUND POLICIES

Application Fee

The Application Fee ($10) is not refundable.

Advance Registration Fee

The Advance Registration Fee ($25) is not refundable.

Community Activities Fee

Freshmen or other new incoming students may apply for a full refund if written application is made to the Comptroller of Community Activities prior to registration for the Fall semester and if one of the following circumstances obtains; withdrawal by the College of the offer of admission; induction into the Armed Forces; illness certified by a physician as preventing enrollment. A partial refund ($30) is granted if written application is made prior to registration for the Fall semester and if reasons other than those specified above determine the student's decision not to enroll.

A student who has completed at least one semester at the College and who after making advance payment of his Community Activities Fee for a year decides not to return is entitled to a full refund if his written request is received by the Comptroller of Community Activities by September 1; he is entitled to a refund of $30 for the second semester if the written request is received prior to registration for the second semester.

A student who has been suspended, or who has been dismissed for academic reasons will not be given a refund for the semester involved.

If a student voluntarily withdraws during the first half of the first semester he may receive a refund of half of the first semester fee and the entire second semester fee, a total of $45.00. If he withdraws during the first half of the second semester, he may receive a refund of $15.00, or half of the second semester fee. In either case, written application for refund must be received by the Comptroller before the end of the semester during which he withdraws.

Other Fee Refunds

Refund policies for fees not specifically covered in the preceding statements are as follows:

No refunds are made to students who are suspended, dismissed, or who withdraw from the College voluntarily. No refunds are made for the $50.00 Housing deposit when housing contracts are broken on voluntary withdrawals from college.

In case of personal illness certified to by an attending physician, or in case of other reasons which may be approved by the Board of Trustees, refunds of housing and contingent fees are prorated and the unused portion subject to refund.

Notice of Withdrawal

In case of withdrawal, any refunds which are due are computed from the date when notice of official withdrawal is received at the Business Office.

2.9 BOOKS AND SUPPLIES

Books and supplies are estimated at $75 for each semester. Students may secure books and supplies at the College Store. This store is operated on a cash basis.

Inter-Sorority Council

3. STUDENT LIFE AND SERVICES

3.1 INTRODUCTION

It is desirable for each student to become involved in extra-curricular organizations and residence hall programs; these provide opportunities to learn and grow as a human being within an atmosphere of a living-learning center. Residence hall programming is intended as a framework for emotional, social, academic, and personal development; the programs involve dining service, social gatherings, cultural events, discussion groups, athletics, judicial proceedings, and a variety of student organizations.

The commuting student is urged to work out a travel schedule which permits him to spend as much time as possible on campus and to participate in the groups of his choice.

The educational value of these services depends upon the effort and involvement of each student, whether resident or commuter.

3.2 COLLEGE POLICY

Individual rights and freedoms will be respected within the context of the educational mission. No community, however, can survive when extreme pressure for undirected change or unyielding resistance to necessary change produces an irreconcilable paralysis. Disruption is easy, but unnecessary disruption fosters an atmosphere of uneasiness, dissatisfaction, and stagnation. Mutual respect for both reason and reasonableness leads to constructive action.

Students are responsible for the rules, policies, and regulations as stated in the **Catalogue, Pilot** (Student handbook), *and the* **Residence Hall Manuals.** *In addition, the Bloomsburg State College Joint Statements on Rights, Freedoms and Responsibilities of Students has been acknowledged as a guiding principle in the normal operation of the College.*

3.3 STUDENT FINANCIAL AID

Financial aid available includes loans, part-time employment, scholarships and grants. The Federal and Commonwealth governments fund most of the programs.

Federal programs include College Work-Study, National Direct Student Loans, the Supplemental Educational Opportunity Grants, and the Basic Educational Opportunity Grants.

Commonwealth programs include the Pennsylvania State Student Employment, the State Guaranty Loans (with Federal subsidy on interest payment for certain income levels), and the Pennsylvania State Grant Program.

The State Guaranty Loans and the State Grants are administered by the Pennsylvania Higher Education Assistance Agency (PHEAA). Information may be obtained from counsellors in high schools or from PHEAA regional representatives.

Limited financial assistance is available through the Bloomsburg State College Alumni Association Loan Program and the Bloomsburg State College Scholarships.

Students who wish to take advantage of financial assistance must file a Parent's Confidential Statement with the College through the College Scholarship Service, Box 176, Princeton, New Jersey 08540. High school counsellors can help students find information concerning this statement.

Further information concerning financial aid opportunities may be obtained from the Director of Financial Aid at Bloomsburg State College.

3.4 STUDENT HOUSING

General Rules

The College reserves the right to assign rooms and roommates in residence halls; personal preferences are considered when possible.

Housing and food services are provided only on a combined basis for students living in residence halls. Housing and food service contracts are binding until the end of the academic year and may not be transferred or assigned.

Freshmen men and women are required to reside on campus or commute from home, unless extenuating circumstances exist. Housing on campus is optional for other students.

Transfer students may indicate housing preference; however, on-campus housing is not guaranteed. Transfer students who wish to live on campus should contact the Director of Housing upon acceptance.

Residence Halls

The Residence Halls are described in Section 1.5, Buildings.

Details of rules and regulations are printed in the *Pilot* and in the residence hall manuals.

Off-Campus Housing:

Students who reside off-campus bear a dual responsibility as citizens of the Town of Bloomsburg and as members of the college community. The College cannot provide sanctuary from the law nor can it be indifferent to its reputation in the community.

With the exception of college fraternity and sorority houses, the College does not supervise the health, safety, living standards, or contractual agreements of students living off-campus. Off-campus dwellings are subject to the safety requirements of the state Department of Labor and Industry and the provisions of the Town zoning ordinance.

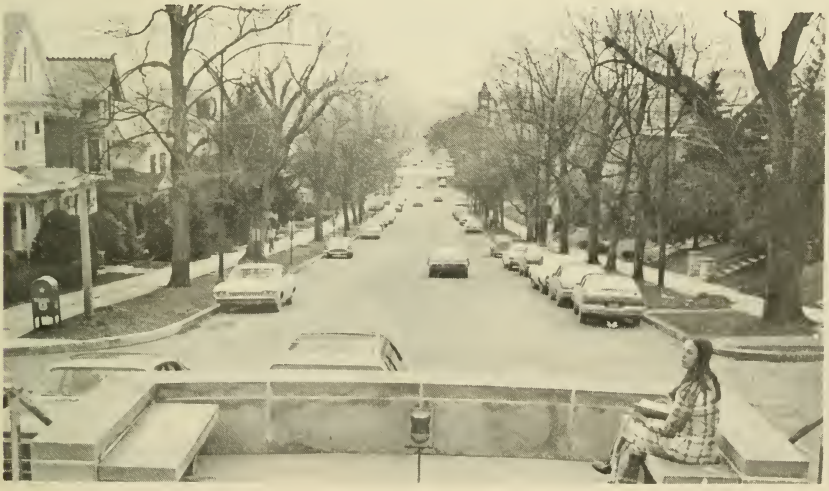
Off-campus students are advised to understand completely the terms and conditions of their housing contracts before signing. It is further suggested that off-campus residents obtain insurance to cover personal property, as most landlords do not assume liability for loss, or damage to, the personal property of their tenants.

A list of off-campus residences is available upon request in the Office of the Director of Housing.

3.5 COMMUNITY GOVERNMENT ASSOCIATION

All students carrying 12 or more semester hours and all faculty who care to join are considered voting members of the Community Government Association (CGA).

The College Council, which meets the second and fourth Monday of each month, acts as the executive board of CGA. The membership of College Council and the constitution of CGA are printed in the *Pilot*, the Student handbook.



3.6 STUDENT ORGANIZATIONS AND ACTIVITIES

3.6.1 ORGANIZATIONS

Students are encouraged to take part in at least one extra-curricular activity per semester. The approved student organizations in 1973-74 are:

Alpha Phi Omega
Amateur Radio Club
American Chemical Society
Balalaika (Russian Club)
Black Student Society
Biology Club
Bloomsburg Acrobatics Team (BATS)
Bloomsburg Players
Bridge Club (Inactive)
Cheerleaders
Chess Club
Chi Alpha
College-Community Orchestra
College Union Program Board
Columbia Association for Retarded Children (C.A.R.C.)
Concert Choir
Council for Exceptional Children
Die Deutsche Ecke (German Club)
Economics Club
El Club Espanol (Spanish Club)
Fellowship of Christian Athletes
Flying Club (inactive)
Forensic Society
Inter-varsity Christian Fellowship
Lambda Alpha Mu
Le Cercle Francais (French Club)
Man & Nature Club (M.A.N.)
Madrigal Singers
Maroon and Gold Band
Mathematics Club
Men's Glee Club
Music Educators National Conference
Omega Tau Epsilon (Circle K)
Phi Beta Lambda (Business)
Philosophy Club
Psychology Association
Ski Club
Society of Physics Students (AIP)
Sociology Club
Student's International Meditation Society (Proposed)
Student PSEA
Student Speech & Hearing Association
Studio Band
Veteran's Club
Women's Choral Ensemble
Women's Recreation Association
Wristlocketts
Young Democrats
Young Republicans

The following governing organizations serve large constituencies:

Association of Resident Men
Association of Women Students
College Union Governing Board
Community Government Association
Commuters' Association
Freshman Class
Sophomore Class
Junior Class
Senior Class
Interfraternity Council
Intersorority Council

Additional information may be obtained from the Office of the Director of Student Activities and College Union located in the Kehr Union.

3.6.2 PUBLICATIONS

Students who are interested in journalism have an opportunity to join the staffs of the student publications and to take courses which lead to a Certificate in Journalism.

Through this activity, a student can contribute significantly to campus life and at the same time gain valuable experience for future work in either commercial or school journalism.

Requirements for the Certificate in Journalism are given in Chapter 7 (See index).

MAROON AND GOLD

The college paper, published twice weekly, is regarded as the official student voice on campus. It is funded by the CGA budget and distributed free to the college community.

OBITER

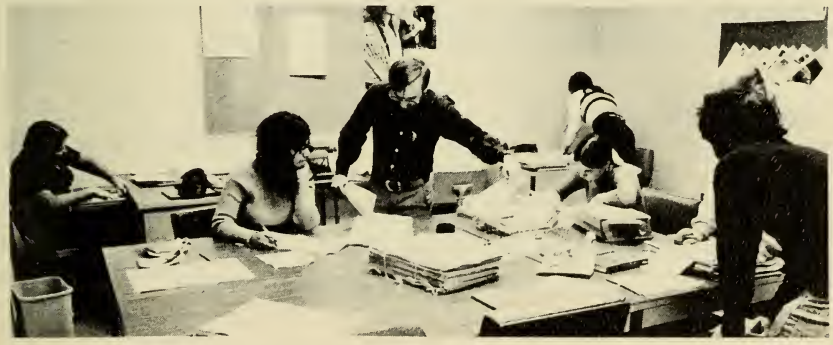
This is the college annual pictoral publication of the activities of the past year. It is funded by the CGA and is distributed free to members of the Senior class. Other members of the college community may purchase copies.

OLYMPIAN

The annual publication provides an outlet for literary expression in the fields of poetry and prose.

PILOT

The official student handbook is edited by students under the supervision of the Vice President for Student Life. It contains essential information about student life and services, the Constitution of CGA, the Constitution of the College Senate, the Joint Statement of Student's Rights, Privileges, and Responsibilities, and the Judicial System.



TODAY

A daily publication from the Office of the Director of Student Activities and College Union announces activities and meetings, and carries news of organizations and departments.

3.6.3 HONOR AND PROFESSIONAL FRATERNITIES

National honor and professional fraternities foster educational ideas through scholarship, social activities, and moral development. Campus chapters with dates of organization are:

Alpha Phi Gamma (Journalism)
Alpha Psi Omega (Coeducational Honorary Dramatic Fraternity) 1928
Gamma Theta Upsilon (Coeducational Geography Fraternity) 1931
Delta Mu Delta (Proposed)
Delta Phi Alpha (Coeducational Honor Society in German) 1967
Kappa Delta Pi (Coeducational Honor Society in Education) 1931
Kappa Kappa Psi (National Honorary Band Fraternity) 1971
Kappa Mu Epsilon (Proposed)
Phi Sigma Pi (Professional Education Fraternity for Men) 1930
Omicron Delta Epsilon (Coeducational, International Honor Society in Economics) 1971
Phi Alpha Theta (National History Honor Society)
Pi Kappa Delta (Coeducational Debate Fraternity) 1963
Pi Omega Pi (National Business Teacher Education Honor Society) 1935
Psi Chi (National Honor Society for Psychology) 1970
Sigma Alpha Eta (Honor Speech and Hearing Fraternity) 1965
Sigma Tau Delta (Coeducational English Fraternity) 1965
Sigma Pi Sigma (National Physics Honor Society) 1970
Tau Beta Sigma (National Honorary Band Sorority) 1971

3.6.4 SOCIAL FRATERNITIES AND SORORITIES

The Inter-Fraternity Council (IFC) serves as the governing body of the seven social fraternities, and co-ordinates rushing, pledging, and programming. The membership at this date, with dates of organization, comprises:

Sigma Iota Omega	1964	
Delta Omega Chi	1965	
Zeta Psi	1966	national November 1969
Phi Sigma Xi Delta Pi	1966	
Lambda Chi Alpha	1967	national September 1970
Beta Sigma Delta	1966	

The Inter-Sorority Council (ISC) is composed of representatives of the five social sororities. The Council coordinates the rushing and pledging activities and endeavors to enhance friendship and social relations between sororities and individual women. The group consists of:

Delta Epsilon Beta	1966	
Sigma Sigma Sigma	1967	national November 1971
Tau Sigma Pi	1967	
Chi Sigma Rho	1967	
Theta Tau Omega	1968	

3.6.5 SERVICE FRATERNITIES AND SORORITIES

These organizations are dedicated to providing service to the campus and community at-large. Alpha Phi Omega (1963) is open to any second semester freshman male with a 2.0 or higher average. Lambda Alpha Mu (1964) is open to any second semester freshman woman with a 2.0 or higher cumulative average.

3.6.6 KEHR COLLEGE UNION

The Kehr College Union contains the following facilities: Ground Floor - student bank, games area, bowling alleys, post office, formal lounge, television rooms, and locker rooms; First Floor - snack bar, multipurpose rooms, health center, information desk, informal lounge, duplicating room, typing room, and administrative offices; Second Floor - offices for student organizations, student publications' offices, study lounge and/or coffee house, conference rooms, and listening room.

The Program Board plans the activities held in the Union; the College Union Governing Board authorizes policies and procedures for the use of the building.

3.7 SERVICES

Dining Room

The William W. Scranton Commons contains four dining rooms. Food services are catered by a professional organization.

Meal ticket requests for non-resident hall students are initiated in the Office of Campus Services on a semester basis and are purchased at the Business Office; in order that the price remain at a minimum, meal tickets are not transferable.

Faculty and staff may eat in the College Commons at the transient rate; rates are published at the beginning of the fiscal year but are subject to adjustment as costs fluctuate.

Group meals through the line by college organizations must be arranged in the Office of the Campus Services and approved by the Business Manager forty-eight hours in advance of the requested time. Banquets and parties for outside groups must be reserved by the same procedure one month in advance.

The Snack Bar in the College Union is equipped to prepare food and serve snacks and light meals to faculty, staff, and students who do not wish to eat in the Scranton Commons.

College Health Center

The College Health Center is located on the first floor of the College Union. A nurse is on duty from 7:30 a.m. to 11:30 p.m. Monday through Friday.

Health Services are available twenty-four hours a day. When medical attention is needed, the student reports to the College Helath Center, except that after closing hours and weekends a residence hall student reports to the official on duty on his hall. Off-campus residents report directly to the Bloomsburg Hospital Dispensary after closing hours and on weekends and present their ID card.

A full time physical therapist is on duty in Nelson Field House with limited services available to member of the college community upon referral by the College physician.

Service of the Bloomsburg Ambulance is made available to college students in residence halls or off-campus housing.

Student Insurance

The College offers a voluntary insurance policy to students. This policy is in force 24 hours a day for 12 months. The policy is recommended by the Community Government Association and the college administration. Detailed benefits are listed in the insurance brochure. Information pertaining to student insurance may be obtained in the Office of Campus Services.

Counseling

The Counseling Center makes available the services of four professionally trained counselors. Services of the center are available to any regularly enrolled student with problems in the areas of educational, vocational, personal, social, or emotional concern.

Students should ask for help without hesitiation when a problem adversely affects their education. Counseling interviews are held rigorously confidential.

Banking

The Community Activities Office, located in the College Union, is prepared to accept deposits of cash for students and to provide for withdrawals at convenient times. Personal checks up to $50.00 may be cashed at the bank. Hours are 10:30 a.m. to 4:30 p.m.

College Store

The College Store sells books and supplies needed during the year; it is open from 8:30 a.m. to 5:00 p.m. Monday through Friday and from 8:30 a.m. until noon on Saturday.

College Post Office

Mail is delivered to campus residence halls daily. A central post office in the College Union provides combination boxes for non-resident students. The service window is open from 8:00 a.m. to 5:00 p.m. Monday through Friday.

Certified, insured and registered mail addressed to students is processed through the college mail room in the Administration Building.

The Arts Council

The Arts Council is supported by the Community Government Association. The Coucil consists of twelve members chosen from the fields of music, literature, art and theatre, with equal membership of students and faculty.

Throughout the college year, the Community Government Association through the Arts Council sponsors programs in the performing arts, lectures, and artists in residence, and an International Film Series. These events are without charge to members of the College Community who contribute to the Activities Fund. A brochure listing the events for the year is published each fall. The Community Government Association also contributes to the Bloomsburg Civic Music Association and in return receives a block of tickets to this Performing Arts Subscription Series. Mrs. Mary Lou John acts as Director of Cultural Affairs.

Haas Gallery of Art

Works of art are exhibited throughout the year in the Haas Gallery under the direction of the Department of Art. Exhibitions are held monthly and a special exhibition of student work is held annually in the Spring.

Permanent Art Collection

The department of art maintains a permanent art collection with works displayed throughout the campus.

Center for Learning and Communication Disorders: Speech, Hearing and Language Clinic.

This Center, located in Navy Hall, provides a number of services to students, faculty, staff and total community. Evaluative services available are: speech, voice, language, hearing, hearing aid evaluation, and educational-psychological services. Therapeutic services offered are speech and language therapy, auditory training, speech reading, educational therapy, and parent counseling. Services of the Center are free to Bloomsburg State College students, faculty and staff.

Career Development and Placement Center

The Career Development and Placement Center offers career counseling and job placement services for students seeking employment or continuing their education.

Vocational counseling is available to undergraduates. Records are kept for graduating seniors and alumni. The Center collects, organizes and distributes materials from school districts and companies, lists job vacancies, and acts as a liaison between registrants and prospective employers.

Student files maintained in the Center consist of personal and faculty recommendations, personal data, and for students in the education curricula, student teaching records. Credentials are provided to employers without charge.

Alumni are invited to regard the services of the placement center as a permanent part of their contract with the college. The services are available through credentials, interviews, and vacancy lists. Communications relating to the center should be addressed to the Director of Career Development and Placement Center.

Veteran's Office

An office for veterans is maintained in Kehr Union with a full-time coordinator whose duty it is to assist veterans in personal problems, especially those related to housing, employment, health, recreation, vocational and technical training and financial assistance, and to provide liaison with other administrative offices.

Required reports to the Veteran's Administration are sent from the Registrar's Office. These reports include exact days of attendance, the number of credits scheduled, whether the student is full-time or part-time, the student's curriculum, the degree sought and an accounting of credits accepted in transfer from other institutions.

3.8 ATHLETICS, INTRAMURALS, RECREATION

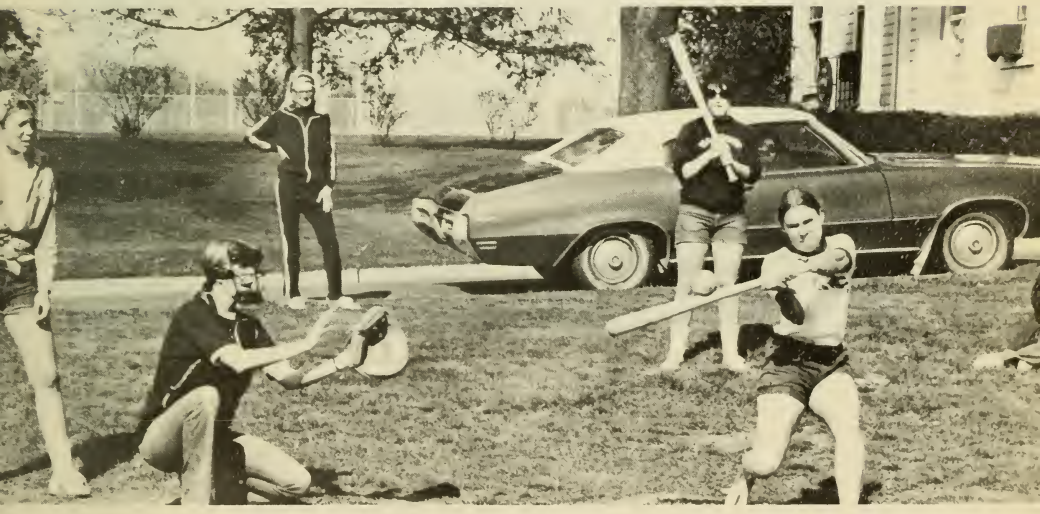
The College is a member of the National Association of Intercollegiate Athletics, National Collegiate Athletic Association, The Pennsylvania State College Conference, and Eastern College Athletic Conference.

The intercollegiate program includes baseball, basketball, football, golf, swimming, tennis, track, wrestling, cross-county for men; basketball, field hockey, swimming and tennis for women.

Intramural sports for men include: bowling, archery, baseball, football, swimming, tennis, track, chess, cross-country, horseshoes, soccer, water polo, weight training, softball, basketball, table tennis, volleyball, wrestling, and gymnastics.

Intramural sports open to all women students are planned to promote wide participation intended to foster a spirit of sportsmanship. Activities include powderpuff football, volleyball, cageball, basketball, teniquoit, badminton, shuffleboard, gymnastics, table tennis, softball, archery, horseshoes, fencing and riflery.

Athletic facilities are made available for recreational used by students when not occupied for instruction, intercollegiate athletics or intramurals.



3.9 AUTOMOBILE REGISTRATION

It is required that all motor vehicles brought to the town of Bloomsburg be registered annually by the Security Office. Commuters, Seniors, Juniors with six semesters or 90 hours credit, veterans eligible for the G.I. Bill, students over 21 years of age, graduate students, Evening Division students, and all faculty and staff are eligible to bring motor vehicles. During Summer Sessions, all students except summer Freshmen are eligible.

Students who do not meet eligibility requirements may neither register nor possess a motor vehicle on the campus, nor in the town of Bloomsburg.

PHEAA restricts a student recipient of a grant from possessing an automobile while attending school, unless that student is a commuter or has been granted permission by the PHEAA office. A student found guilty of violating this regulation will be required to refund the grant.

4. ADMISSION AND READMISSION

4.01 INSTRUCTIONS FOR CORRESPONDENCE

Correspondence concerning admission and documents which pertain to admission should be addressed to:

Director of Admissions
Bloomsburg State College
Bloomsburg, Pa. 17815

4.02 CRITERIA FOR EVALUATION

Admission to Bloomsburg State College is determined by the applicant's academic and personal qualifications. Decisions are reached without regard to race, color, creed, or national origin.

Applicants other than those eligible under Section 4.05 must be graduates of or seniors in accredited secondary schools or must have secondary school equivalency as determined by the Credentials Evaluation Division of the Pennsylvania Department of Education.

Acceptance is determined by the Director of Admissions upon evaluation of secondary school preparation, achievement, scores on the Scholastic Aptitude Test, personal characteristics, and institutional capacity.

Acceptances are tentative if based on evaluation of transcripts which show work in progresss; final action is taken after complete transcripts have been received and evaluated.

4.03 APPLICATION PROCEDURES

Application materials and instructions for application may be secured by writing the Director of Admissions.

To be a candidate for admission, one must complete and submit an official aplication to the Office of Admissions. The applicant is responsible for requesting the proper official of his secondary school to submit a transcript and personal evaluation to the Director of Admissions.

The non-refundable application fee of ten dollars must be paid prior to consideration of the application.

4.04 ENTRANCE TEST

Applicants must have on file scores of the Scholastic Aptitude Test of the College Entrance Examination Board. It is the responsibility of applicants to arrange for the test and to request the forwarding of the scores directly from the Educational Testing Service. No other test scores will be substituted.

4.05 EARLY ADMISSION

Outstanding high school students may be considered for admission upon the completion of grade 11. In addition to strong achievement and high aptitude, applicants for early admission must have the unqualified endorsement of the high school to receive consideration. College credit earned may apply toward the requirements for the high school diploma.

4.06 TRANSFER STUDENTS

An applicant who has ever been enrolled, or who at the time of application is enrolled, in another college or university is a transfer student regardless of whether or not he earned credit.

The information supplied in section 4.2, Criteria for Evaluation, and 4.3, Application Procedures, applies to transfer applicants. American College Test results may be submitted instead of the Scholastic Aptitude Test results for transfer students. Transfer students must also request each college attended to send an official transcript and a clearance form to the Director of Admissions.

In order for a transfer student to be considered for admission, he must be certified as in good standing academically and otherwise in the college last attended and must have a quality point average in that college of 2.0 or better on a 4.0 system.

4.07 READMISSION OF FORMER STUDENTS

Students who, having been formally admitted to degree study and attended Bloomsburg State College, withdraw for any academic semester, regardless of the reason, must apply for readmission if they wish to re-enter.

Readmitted students are responsible for the graduation requirements and academic policies which exist at the time of re-entrance.

The Director of Admissions may require an applicant for readmission to file a letter containing such supplementary information as is needed for proper consideration.

Students under academic dismissal are ineligible for consideration for readmission for one calendar year; they should present evidence of successful achievement at another college or university as part of any application for readmission.

The grades recorded prior to readmission of a student under academic dismissal do not enter into subsequent computations of the quality point average, but his previous record will be included in computations of cumulative credit and semesters attended. A student may invoke this provision only once.

4.08 LEAVE OF ABSENCE

A student may request a leave of absence for a specified period through completion of an application at the Office of Admissions. The leave is granted at the end of the semester provided the student is then in Academic Good Standing.

A student on leave of absence is assured his place in the semester designated for his return, provided he fulfills the instructions that are part of the leave of absence agreement and submits advance registration and Community Activities Fee at the time designated by the Director of Admissions.

4.09 HEALTH RECORD

An applicant who is offered admission must submit a medical examination report from his physician prior to enrollment. The appropriate medical examination report form is forwarded to the applicant at the time of acceptance.

Final permission to enroll is contingent upon a favorable review of the medical report by the College Physician.

4.10 CAMPUS VISITS

A personal interview is not required for admissions consideration; if it is deemed desirable, however, an appointment will be made for the applicant by the Director of Admissions.

A number of campus visitation days are held during the academic year. Visitation days consist of a general meeting with Admissions personnel, students, and Administrative personnel—including a question-answer session—and a tour of the campus. Specific information and dates are available upon request from the Director of Admissions.

4.11 ADVANCED PLACEMENT

Bloomsburg State College cooperates with the College Entrance Examination Board in awarding college credit to the high school student who successfully completes Advanced Placement Examinations. Results of the Advanced Placement Examinations should be submitted to the Director of Admissions for evaluation. A score of 5 or 4 exempts a student from the introductory course in the tested area and gives credit. A score of 3 exempts the student, *without credit*, from the introductory course. No advanced placement is given for grades of 2 or 1.

Credits may be awarded for College Level Examination Program (CLEP) results at the discretion of the appropriate dean.

Advanced placement may be awarded in English Composition after considerations of verbal standardized test results and high school achievement.

4.12 ADVANCED STANDING FOR MILITARY SERVICE EDUCATIONAL EXPERIENCES

The recommendations of the American Council on Education as stated in its Guide to Evaluation are followed. The applicability of such credit to the requirements of the student's curriculum is determined by recommendation of the dean of the school and confirmation by the Vice-President for Academic Affairs. USAFI courses validated through college-level examinations are subject to the provisions for accepting of correspondence courses.

4.13 INTERNATIONAL STUDENTS

Residents of foreign countries should initiate their application well in advance of the semester they plan to enroll. Special application forms are required and may be obtained by writing to the Director of Admissions. Students whose native language is other than English are required to submit the results of the Test of English as a Foreign Language (TOEFL) Examination administered by the Educational Testing Service, Princeton, New Jersey 08540. Certificates of educational training should be accompanied by certified translations if they are presented in a language other than English. Brief course descriptions of subjects successfully completed should be included with credentials.

4.14 EDUCATIONAL OPPORTUNITY PROGRAM

The Educational Opportunity Program is intended to equalize educational opportunity for individuals from disadvantaged backgrounds.

Any individual is eligible for consideration for admission to the Education Opportunity Program. The applicant should have completed the basic high school courses for normal admission, but supplementary non-traditional criteria are applied in estimating his potential when it appears that his disadvantaged background has contributed significantly to low grades and/or low standardized test scores.

Financial assistance is provided when indicated by the parent's confidential statement. The parent's confidential statement should be submitted by the applicant to the College Scholarship Service, Princeton, New Jersey. A brochure, *Financial Aid for Students*, available at the Office of Financial Aid at Bloomsburg State College, describes the type of aid available in this institution.

Students in the Educational Opportunity Program may receive tutoring, special academic counseling and social counseling.

Inquiries should be sent to the Director of the Educational Opportunity Program or to the Director of Admissions.

5. ACADEMIC POLICIES AND PRACTICES

Academic policies and practices are subject to change; the policies of this chapter are those authorized as of January 1, 1974. If there are subsequent changes which are effective for 1974-75, insofar as possible these will be announced in the **Pilot**; changes *made after publication of the* **Pilot** *are announced in the* **Maroon and Gold.**

5.01 REGISTRATION POLICIES AND PRACTICES

Student Responsibility

It is the responsibility of the student to know and observe the academic policies and regulations of the College, to confine his registration to courses for which he has satisfied the prerequisites, and to meet the requirements for his graduation.

In case of changes by the College in graduation or curriculum requirements, a full-time student who attends without interruption may choose to satisfy either the requirements as they existed at the time of his entrance or the new requirements; if he elects to satisfy the new requirements he is responsible for them *in toto.* A student who withdraws from the College for one or more semesters must apply for readmission and be governed in this matter by the rules for readmission. A part-time student must apply to the Vice-President for Academic Affairs for permission to be graduated under his original requirements.

Academic Advisement

Students are requested to indicate on their application for admission the area of study in which they are interested. A student is assigned an adviser with interest in the area of study thus indicated. The assignment is made by the Co-ordinator of Academic Advisement with the advice of the faculty, department chairman, and deans. Students who wish to change their area of study apply at the advisement office.

Some students may not wish to choose a specific area of study immediately and may so indicate by listing their school as Arts and Sciences and stating *undecided* (or General College Program). Students with questions or problems concerning academic advisement should seek assistance in the office of Academic Advisement.

Pre-scheduling and Registration

Prior to the beginning of each semester, the student, after consultation with his adviser, submits a list of courses for the semester. When this list has been approved by the appropriate officer, a schedule of classes is prepared in the Computer Services Center; this becomes the basis for his registration.

The outlines of curricula in this catalogue list requirements without indication of an order in which courses should be taken. Some advisers translate the lists into recommended sequences which serve as guides in the preparation of semester schedules. When such sequences are not made available, the student is responsible for planning each semester's courses for most effective learning experience. This responsibility should not be taken lightly; the student should seek assistance of his adviser in making decisions concerning sequence as well as decisions involving the identity of elective courses.

Specific instructions are issued for each pre-scheduling and registration period; failure to follow announced procedures may result in forfeiture of privileges pertaining to registration.

A student is granted credit for a course only if he has attended the class listed on his officical class schedule.

During the semester in which a student will have completed 92 semester hours of credit, he is required to file a graduation plan in the office of his dean. The plan must have the recommendation of his adviser. If the plan is approved by the dean, a statement is issued to the student certifying that upon the completion of the plan, the course requirements for graduation will have been completed. After the plan has been approved, changes may be made only with the approval of the dean.

Change of Schedule

A student may change his semester schedule prior to the close of the second Friday following the first day of classes upon approval by the dean of the school. A fee of $2. is charged for a change of schedule.

Transfer of Curriculum

A student may transfer from one curriculum to another curriculum within the same School by obtaining permission of the Dean of that School. Permission may depend upon such factors as available space in the curriculum to which transfer is requestesd and recommendations from advisers and counsellors.

A student who wishes to transfer from his present curriculum in another school must apply for transfer in the Academic Advisement office. The filing of this request must be completed before the end of the semester preceding the proposed transfer, preferably before the pre-scheduling period. Ordinarily, academic good standing is prerequisite to transfer; students with lower averages may apply for transfer only with permission of the Vice President for Academic Affairs.

Withdrawal from a Course

A student is permitted to withdraw from a course at any time prior to the last week of classes for the semester. His grade is determined by the following policy: If withdrawal is initiated by the student prior to the close of the day established as the end of the first half of the semester, the grade of "W" is reported; if withdrawal is initiated later, a grade of "W" is reported only if the student is currently passing, while the grade of "E" is required if the student is failing the course. If a student discontinues attending class without official withdrawal the grade of "E" is indicated. Absence from the final examination without confirmation that it was caused by circumstances beyond the student's control is regarded as discontinuing attending class without official withdrawal.

A withdrawal application card may be obtained from the Registrar's office; the student has initiated his withdrawal when has complied with instructions which accompany the card and has filed the card with the Registrar. His grade is determined as of the date when he initiated withdrawal, except that in case of prolonged absence, reliably confirmed as due to causes beyond the student's control, the Vice-President for Academic Affairs will request the instructor to make the grade retroactive to the first day of absence due to this cause.

Withdrawal from the College

A student may withdraw from the College by securing the Official Withdrawal Form from the Counseling Center and completing and filing it as directed. The withdrawal process includes the clearing of all financial obligations and the return of the I.D. card and meal ticket. Grades are given in accordance with policies stated above under "Withdrawal from a Course." An individual who discontinues attendance without completing official withdrawal and clearing of all obligations to the College waives the right to a transcript and is denied future readmission.

Policies which govern reimbursements are stated in the chapter on Fees.

Pass-Fail Registration and Rules

After attaining sophomore standing, a student may elect courses on a Pass-Fail basis in accordance with the following rules:

A maximum of four courses (not more than 13 semester hours in total) may be included as part of the minimum graduation requirement of 128 semester hours.

The courses must be electives in disciplines of the arts and sciences beyond the requirements of the student's specialization. Specialization includes a major and any courses required as concomitants of the major. Courses outside the specialization taken on Pass-Fail basis may be used to satisfy General Education requirements.

No more than two courses may be taken on this plan in any semester or summer term.

The instructor is not informed that the course is being taken on a pass-fail basis; his grades of A, B, C, D, or E are translated later into grades of P or F, with the grade of P recorded for a grade of D or higher and the grade F recorded for E.

The grades P and F do not enter into the computation of a quality point average.

If, subsequent to completion of a course on a Pass-Fail basis, the student should change his major to one in which the instructor's original grade is required, the record is revised accordingly.

The student may not revoke a decision to take a course on a pass-fail basis.

Normal Load and Overload

The normal load of a student in any semester is sixteen semester hours. A student in Good Standing may register for a maximum of eighteen semester hours in a semester. An overload to a maximum of nineteen semester hours requires a Cumulative Quality Point Average of 3.0 and permission of the Vice President for Academic Affairs.

Repeating Courses

A student may repeat a maximum of four courses in which he has grades of E. He may not repeat a course in which he has previously earned a passing grade.

A student who has received a grade of E in a course may not take it later on a Pass-Fail basis.

Credit by Examination

A student may petition for the privilege of establishing credit in a course or courses listed in the catalogue through a comprehensive examination instead of through registration and class attendance. The following regulations govern this provision:

The student must present evidence in his petition that he has had adequate experience with the course content either through experience other than college attendance or through independent study of the course content.

The student may not petition for an examination in a course which he had audited, nor in a course in which he has received a failing grade.

The student must present evidence of equivalent experience if the course involves laboratory or studio work.

The student's petition must be approved in sequence by the department chairman, the dean of the school, and the Vice-President and Dean of Faculties.

An examination committee must be appointed by the department chairman and approved by the dean of the school. Unless the course is an advanced course which is taught by only one member of the faculty, the examination committee must include at least two faculty members.

The examination must cover the course syllabus in a comprehensive manner. Suitable standardized examinations may be used. The examination must be written or, if oral, subject to transcription. Where skill, as in typewriting or shorthand, is a course requirement, the written and oral aspects must be supplemented by demonstration of skill. All papers must be filed in the department office for three years following graduation.

If the student passes the examination, he is assigned the grade of "P" for the course. If he fails, no record is made. This course does not count in the student's normal quota of pass-fail courses.

The student must pay an examination fee comparable to that which would be paid by a part-time student who registers for the course.

Suitable adaptations of the above procedures may be used to validate transfer courses taken in non-accredited colleges. No fee is charged for examinations to validate such credit. Examinations may be based upon the syllabi of the courses taken in the previous institution or in case the student wishes to establish equivalency with courses in this college, upon the syllabi of courses offered in this institution.

Auditing of Courses

A full-time student who is enrolled for less than seventeen semester hours of course work may, with consent of the Vice-President for Academic Affairs, register for one course as an auditor. If he attends at least three-fourths of the regular class meetings the grade of V will be reported by the instructor and the course will be entered on his academic record without credit. No

assignments are made to an auditor and no papers or examinations are accepted by the instructor for grading or record either during the period of enrollment or subsequent thereto. An auditor may not participate in laboratory or studio work if such work is part of the course audited.

A part-time student may register as an auditor, subject to the provision that when computing the fee paid by the student the course audited will be counted the same as if it were taken for credit. Individuals who are not enrolled as students may apply for audit privileges through the Director of Continuing Education; acceptance depends upon such factors as space in class and educational background.

Class Standing

A student has academic standing as a *freshman* until he has 32 semester hours of credit; as a *sophomore* from 32 to 63 semester hours, a *junior* from 64 to 95 semester hours, and a *senior* if he has 96 or more semester hours of credit. Transfer credit, if any, is included in these figures.

For purposes of social and housing privileges and regulations, the definitions of class standing are as follows: **freshman**, *to and including 29 semester hours;* **sophomore**, *30 to 59 semester hours;* **junior**, *60 to 89 semester hours;* **senior**, *90 or more semester hours or 6 semesters as a full time student.*

Definition of Full-Time Student

An individual who registers for twelve or more semester hours is classified as a full-time student. One who registers for less than twelve semester hours is a part-time student. Where the word "Student" appears in this catalogue without modification either by word or context, "full-time student" is implied. A full-time student retains this classification for the remainder of the semester if he drops courses to the point where he is carrying less than a twelve semester hour load.

Progress Reports

At the mid-point of each semester a student may request from his instructor an estimate of his grade in the first half of the semester. This estimate is not made a part of his permanent record.

At the end of a semester or summer term, the final grade for each course is recorded on the student's permanent record; a copy of the semester grades is sent to the student at his home address or another address if designated by the student.

5.02 CLASS ATTENDANCE

A student who is absent from a class for a reason which can be verified as urgent is entitled to a reasonable amount of assistance from the instructor in making up the work which was missed. This includes permission to make up an examination given the class during his absence and the late submitting of assignments that were due during the period of absence. Urgent reasons are defined as illness of the student, serious illness or death of a member of the student's family, and other events beyond the control of the student and of such nature as to prevent attendance. Students whose absences do not fall within this category may not claim the privilege of making up work. It is the responsibility of the student to provide verification of the reason for absence if requested by the instructor when applying for the privilege of making up work missed.

5.03 GRADES, QUALITY POINTS AND QUALITY POINT AVERAGES

Definition of Grades

The grades given at Bloomsburg State College are defined as follows:

C—Satisfactory. The work meets the instructor's concept of satisfactory performance and/or is equivalent in quality to that of the "average" or "typical" students.

A—Excellent or Distinguished or Superior. This is interpreted both as excellent when judged by the instructor's standards and superior when compared with the performance of the students graded "C".

B—Good. This is a measure which indicates work intermediate between that properly rate "C" and that rated "A".

D—Minimum Passing Grade. The student has met the instructor's minimum standards, but the quality of the work is lower than that graded "C".

E—Failure; No Credit. The student has not met the minimum standards. If the course is prerequisite to another course the student should not continue in the sequence.

W—Withdrawn from the course while passing. This grade is discussed more fully in paragraph on Withdrawal.

I—Incomplete. *This grade is given only when because of circumstances beyond his control the student has been unable to complete certain of the obligations of the course and when a plan exists and is understood by both instructor and student whereby the work which remained to be done may be completed and graded.* When the work has been completed, a permanent grade is submitted by the instructor to replace the grade of "I".

Unless specifically stated in a written plan filed in the Registrar's Office it is assumed that the work will be completed prior to the end of the next semester. If the plan is not fulfilled, the grade of "I" remains a part of the student's record (it is not subject to change at a later time). In the case of graduate students the grade of I is replaced by symbol N; this symbol remains permanently on the student's record.

P—Passed. This grade is recorded when a student takes a course on a Pass-Fail basis and does work which would lead to a grade of "D" or higher.

F—This grade is recorded when a student takes a course on a Pass-Fail basis and does work which would lead to a grade of "E".

V—Audit. This grade is recorded when a student has registered as an auditor and attends the class for three-fourths or more of its regular meetings. The entire set of rules governing auditing of courses appears in Section 5.1.

R—Research in Progress. This grade is recorded when a graduate research project is in progress but not yet completed.

Quality Points

Grades of A, B, C, D, and E have quality point values as follows:

Grade	Quality Points
A	4
B	3
C	2
D	1
E	0

Quality Point Average

A number called the Quality Point Average (abbreviated QPA) is computed from the record of courses taken at Bloomsburg State College with grades of A, B, C, D, and E. The computation process is as follows:

(1) Multiply the number of semester hours for each course by the number of quality points for the grade in the course, and add the products.

(2) Divide the sum obtained in the first step by the total number of semester hours represented by the courses.

The "Semester QPA" is computed by including only the courses of a single semester. The "Cumulative QPA" is that computed by including all courses taken to date at Bloomsburg State College; if a course has been repeated, only the last grade is used in the computation. (See also Section 4.07.)

Change of Grade

After a grade has been reported to the Registrar's office it may be changed only to correct a computational or clerical error; a recommendation for change of grade must be made in writing by the instructor and approved by the department chariman and the Vice-President for Academic Affairs.

5.04 HONORS

The name of a student whose Semester QPA if based upon twelve or more semester hours excluding pass-fail courses is 3.5 or higher is included in the Dean's List for that semester.

Graduation honors are recognized as follows: A student whose Cumulative Quality Point Average is 3.50 to 3.59 is graduated *cum laude*; 3.60 to 3.74, *magna cum laude;* 3.75 to 4.00 *summa cum laude.*

5.05 ACADEMIC GOOD STANDING

A student whose record at any final grading period meets the standard described in this table is in Academic Good Standing.

TOTAL NUMBER OF SEMESTER HOURS IN COURSES PASSED, INCLUDING GRADES OF "P" AND TRANSFER CREDIT	CUMULATIVE QUALITY POINT AVERAGE REQUIRED FOR GOOD STANDING
to and including 18 sem. hrs.	1.25 or higher
19 - 30 sem. hrs.	1.50 or higher
31 -54 sem. hrs.	1.75 or higher
55 —	2.00 or higher

5.06 RETENTION POLICIES

Academic Probation

A student in one of the following three categories is permitted to attend on Academic Probation for one additional final grading period. (Either semester or summer session);

(a) an entering freshman whose Quality Point Average at the end of his first final grading period is at least 1.00 but less than 1.25;

(b) a transfer student whose Quality Point Average at his first final grading period is less than, but within 0.25 of, that required for Good Standing;

(c) a full-time student who has been in Good Standing continuously for at least two consecutive final grading periods immediately prior to a grading period in which his Cumuulative Quality Point Average drops below, but within 0.1 of, that required for Good Standing.

The record of a student in any of these categories is marked "Academic Probation."

There are three final grading periods in each calendar year: at the close of the last summer term and at the end of each semester.

Academic Dismissal

A student who at any final grading period is neither in Good Standing nor qualified to attend for a semester on academic probation is excluded from registration and his record is marked "Academic Dismissal."

A student under academic dismissal is ineligible to attend any courses offered by the College for a period of at least one calendar year. Readmission regulations are stated in Chapter 4.

Appeals

A student under academic dismissal may petition the Academic Review Board for reinstatement. If reinstatement is granted, the conditions pertaining thereto are stated, and the student's record is marked *"Reinstated."* If the student does not attain Good Standing by the end of the period granted by the conditions of reinstatement he is excluded from registration and his record is again marked "Academic Dismissal."

Petitions to the Academic Review Board *must be in writing* and must be filed with the Vice-President for Academic Affairs within 48 hours of receipt of notification.

The Academic Review Board comprises the Deans of the Schools of Arts and Sciences, Professional Studies, and Business; a representative of the Vice-President for Student Life; the Director of the Counseling Center; the Director of Admissions; the Director of Summer Sessions and Continuing Education; and the Registrar of the College. At the initiative of either the applicant or the Academic Review Board, the student's adviser will be invited to participate as a voting member in the consideration of his case.

In its evaluation of a petition for reinstatement, the Academic Review Board is charged to consider: the degree to which external factors beyond the student's control temporarily prevented optimum academic achievement; the likelihood that these or similar factors would not recur if reinstatement were granted; the likelihood that the student, if reinstated, can complete his curriculum successfully within a reasonable extension of the normal four year period; an evaluation of the plan for attaining Good Standing proposed by the student as a part of his petition; and such other factors as may seem pertinent. Reinstatement is an expression of confidence on the part of the Board in the student's potential for successful completion of his curriculum and his fulfillment of its purposes.

A student whose petition for reinstatement has been denied by the Academic Review Board may appeal the decision within 48 hours to a special panel consisting of the vice-presidents of the College, provided the dean of the school in which the student has been enrolled supports the appeal by certifying that in his judgement it presents evidence concerning pertinent factors that

either were not placed before the Board or were given insufficient attention. The appellant must petition in writing through the Vice-President for Academic Affairs; he may also be required to appear before the panel in person. All members of the panel must concur in any decision to reverse the Academic Review Board. *The decision of the panel is final.*

5.07 EVALUATION OF TRANSFER CREDITS

Evaluation of credit earned in other insititutions is made by the dean of the school in which the student has chosen his curriculum, subject to confirmation by the Vice-President for Academic Affairs.

Initial evaluations are tentative; they are subject to revision in the light of the student's first semester experience.

Acceptable courses must have been completed in an accredited college or university or in a recognized or accredited junior college or community college. Courses must be applicable to the student's curriculum either as substitutes for required courses or as electives; credit will be deleted if the student subsequently registers for courses which substantially duplicate the content of courses accepted for transfer.

A student is entitled to an opportunity to validate by examination a course presented for transfer when the substitution of transfer credit for a required course is in question because the course was taken in an unaccredited institution or because of uncertainty concerning the syllabus or standards of the course. When they are available, standardized examinations are used.

Correspondence courses are subject to acceptance to a total that does not exceed fifteen semester hours if taken from an accredited college or university and acceptable by that institution toward graduation in a baccalaureate degree curriculum.

Courses taken in another institution on a Pass-Fail basis are acceptable if they conform to the conditions for such grades at Bloomsburg State College.

A transfer student is issued an evaluation sheet which stipulates the requirements for graduation which remain to be met; this is subject to revision in the light of subsequent changes in the evaluation of the transcript.

Students of Bloomsburg State College may take courses in other accredited insitutions and submit the credit for transfer, provided the courses have been approved in advance by the Vice-President for Academic Affairs.

(*See Section 5.12 for limitations on credit transferred from junior colleges and similar institutions.*)

5.08 CHEATING AND PLAGIARISM

Attempts by students to improve grades by cheating in tests and examinations or by plagiarism in papers submitted to the instructor are offenses subject to penalties which may be as severe as suspension or expulsion.

The instructor may assess penalties ranging from a privately adminstered reprimand to a grade of E in the course. If the offense appears to merit a more severe penalty, the instructor is responsible for initiating a request for formal consideration by the Student-Faculty Judiciary.

In order to avoid the appearance of plagiarism resulting from ignorance of the proper use of source materials, the student should familiarize himself with the conventions governing use of sources. Such information can be obtained from instructors or from handbooks found in the Library.

5.09 TESTING PROGRAMS

Each new student is required to take entrance classification tests during the orientation period. The results of the tests are used for advisement, counseling, research, and reports. No fee is charged for these tests.

A number of other tests are administered by the College; these are offered as a service to students who may need them for special purposes. Among the tests currently available are the National Teacher Examination. Admission Test for Graduate Students in Business, Graduate School Foreign Language Tests, Law School Admission Test, Test of English as a Foreign Language, Graduate Record Examination. Information concerning these and other tests may be obtained from the Office of Institutional Research.

5.10 RESIDENCE REQUIREMENT

At least 32 of the last 64 semester hours credited toward a baccalaureate degree must be taken in residence in the College. Former students of the College who were certificated for teaching by completing two or three years of college work and who are candidates for the degree, Bachelor of Science in Education, must complete at least one half of the remaining work for the degree in residence. Residence credit is given for courses taught on the Bloomsburg State College campus in a semester, a summer term, in evening or Saturday classes for teachers, and for off-campus student teaching.

5.11 GRADUATE COURSES IN SENIOR YEAR

Seniors who in their last semester of residence need fewer than fifteen semester hours of course work to satisfy their requirements for the baccalaureate degree may apply to the Dean of Graduate Studies for permission to supplement their undergraduate courses with graduate courses providing the total of undergraduate and graduate courses will not exceed 16 semester hours. If permission is granted, credit in the graduate courses is held in reserve.

5.12 GRADUATION REQUIREMENTS

A candidate for graduation with a baccalaureate degree must have satisfied the residence requirements and completed all course requirements of one of the curricula as these are stated in the catalogue. (See Section 5.01, Student Responsibility.)

The minimum credit requirement for a baccalaureate degree is 128 semester hours.

The last 64 semester hours of the credit counted toward graduation must be in courses taken in four-year baccalaureate degree granting colleges. (For the minimum residence requirements in this College, see Secion 5.10).

Secondary majors in foreign languages must have satisfied the departmental examination requirement.

The Diploma Fee ($5.00) must have been paid.

All financial obligations to the College (library fines, parking fines, any unpaid tuition or housing fees, loans, etc.) must have been cleared.

The candidate must have arranged an exit interview with the Director of Financial Aid.

5.13 SECOND BACCALAUREATE DEGREE

An individual who applies for a second baccalaureate degree must have completed the first degree at Bloomsburg State College or another college or university and must have added thereto at least 30 semester hours in undergraduate courses taken in residence during regular academic years and/or summer terms at Bloomsburg State College. All requirements for the curriculum in which the second degree is earned must have been satisfied and free elective credit must have been taken if necessary to complete the additional thirty semester hours. If a given course is required in both degree programs, it must not be repeated for the second degree.

6. UNDERGRADUATE CURRICULA: INTRODUCTION

6.1 CHOICE OF CURRICULUM

The undergraduate curricula are administered by three schools, the School of Arts and Sciences, the School of Professional Studies and the School of Business. The requirements of the curricula are stated in the chapters which deal with these schools.

A student must have committed himself to a curriculum and secured his admission thereto by the end of his sophomore year, except that a student who transfers to Bloomsburg State College with junior standing has a grace period of one semester.

Students who upon initial entrance into the College declare an interest in the School of Business are assigned at once to that school; other students are assigned initially to the School of Arts and Sciences, except that students who express interest in teacher education are tentatively assigned to the School of Professional Studies. Students may make a tentative choice of curriculum or may declare themselves undecided; if they have made a tentative choice this becomes one of the determinants for selection of courses during the period which precedes the final commitment, but *admission to courses of a curriculum does not bind the School or the College to official admission of the student to the curriculum in cases where admission is selective or restricted. In particular, admission to any curriculum in the School of Professional Studies is selective.*

6.2 CREDIT

Each curriculum which leads to a baccalaureate degree requires the successful completion of 128 semester hours of credit. A semester hour is defined as the credit for one weekly period of fifty minutes in lecture, discussion or recitation for one semester; in case a course requires laboratory, shop or studio experience, two or in some cases three periods are considered as equivalent to one period of lecture, discussion or recitation.

6.3 GENERAL EDUCATION REQUIREMENTS

Regardless of the school, the curriculum, or the degree sought, sixty semester hours of the total graduation requirement of the four-year baccalaureate programs must be taken in general

education courses in accordance with the following distribution pattern:

A. Required Courses ..... **7 or 10 semester hours**

These courses consist of English Composition and Physical Education as follows:

English Composition: Depending upon the student's preparation as indicated by his entrance test scores, he must take either English 20.101 and 20.102 (six semester hours) or 20.103 (Three semester hours).

Physical Education: This requirement totals four semester hours, fulfilled as follows: HPE 05.130 is recommended to all freshman students. The results of this course are used in selection of activity courses which make up the remaining three semester hours. Students who have passed the age of thirty should consult the chairman of the Department of Health, Physical Education and Athletics for modifications, if desired. Students who have served twelve months active duty in the armed services may apply for credit and exemption from this requirement. Beginning swimming is required of students who do not successfully pass a swimming proficiency test.

B. Restricted Electives ..... **36 semester hours**

This requirement is fulfilled by taking twelve semester hours in each of the following three groups of disciplines, with at least two of the disciplines of each group represented in the choice of courses:

Group I, Humanities: art, English, foreign languages, music, philosophy, speech.

Group II, Social Sciences: economics, geography, history, political science, psychology, sociology. (Education 60.101, 60.393, 60.394 may also be used.)

Group III, Sciences and Mathematics: biology, chemistry, mathematics, physics, earth science.

The courses in the disciplines named in the three groups must be chosen from those designated as general education courses in the course descriptions.

C. Additional Electives

This requirement is fulfilled by electing courses sufficient in credit to complete the total of 60 semester hours in general education; these courses must be elected from designated general education courses in the three groups defined above.

The pattern of general education outlined above reflects a belief that a college must attempt to insure that the standards of an educated person in reading and writing have been attained, and should require the student to have experiences in the three recognized broad areas of knowledge: the humanities for their

insights concerning intellectual and ethical values, the social sciences for enlightment basic to understanding problems of society, and the sciences and mathematics for mature appreciation of the contribution of these branches of knowledge in determining the nature of an industrial-technical society.

Prescription of general education courses has been set at a minimum in order to give each student, with the help of an adviser, the opportunity to survey his previous background and to choose new intellectual experiences that provide opportunity for optimum growth. This policy places important responsibility upon the student for discrimination in making decisions.

If the student's chosen curriculum requires courses which are also designated as acceptable for general education distribution requirements, the student may elect to apply them toward both his specialization and general education. The credit for such courses is counted only once in fulfilling the total graduation requirement.

7. SCHOOL OF ARTS AND SCIENCES

7.1 GENERAL INFORMATION

Degrees

The degrees, Bachelor of Arts (B.A.) and Bachelor of Science (B.S.) are conferred for programs offered in the School of Arts and Sciences.

The aim of a program which leads to the degree, Bachelor of Arts, is to offer the student opportunity for a liberal education through study in both breadth and depth of disciplines in the humanities, the social sciences and the natural sciences and mathematics.

The aim of a program which leads to the Bachelor of Science degree is to offer opportunity for liberal education together with a specialization that may have the potential of application.

There are two patterns for the Bachelor of Arts degree, a pattern of emphasis upon a broad field and a pattern with a major in one of the academic disciplines.

7.2 PROGRAMS WITH MAJOR SPECIALIZATION (DEGREES B.A. and B.S.)

Requirements for the arts and sciences degrees are as follows:

The General Education requirements as given in Section 6.3 must be satisfied; the major requirements as stated at the beginning of the course descriptions for the discipline must be fulfilled; elective credit in disciplines of the humanities, social sciences and natural sciences and mathematics must be added to give minimum total credit of 128 semester hours.

7.3 BROAD AREA PROGRAM FOR THE BACHELOR OF ARTS DEGREE

This program offers opportunity for a student to build his own curriculum with a minimum of restrictions. The student selects one of the three areas, Humanities, Social Sciences, and Natural Sciences and Mathematics for his emphasis; he takes the core courses prescribed below for that area, fulfills the general education requirements, and elects the remainder of the work. At least 48 semester hours must be taken in the chosen area. It is required that prior to the close of his sophomore year he submit

for his adviser's endorsement a plan for the completion of his studies. At least 40 semester hours of the total graduation requirement of 128 semester hours must be in courses numbered 300 or higher. Courses outside the chosen area must be in the other two areas of the Arts and Sciences.

Core Courses for the Broad Area Program in the Humanities:

English 20.260; any additional course in English literature;
Philosophy 28.301 or 28.302; Speech 25.208 or 25.321;
One course in art history; one course in music history.

Core Courses for the Broad Area Program in the Social Sciences:

Political Science 44.101, 161; Economics 40.211, 212;
Sociology 45.211 and one elective in sociology;
Anthropology 46.200; Psychology 48.101 and one elective in psychology;
History 42.111; 42.112 or 42.113;
Geography 41.101 or 41.102.

Core Courses for the Broad Area Program in the Natural Sciences and Mathematics:

One year of mathematics, preferably 50.125, 50.126;
One full year's work in each of two sciences.

7.4 PRE-PROFESSIONAL STUDY AND ADVISEMENT

Students who enroll in Bloomsburg State College to prepare for admission to a school of medicine, dentistry, pharmacy, veterinary medicine, law or other professions should inform the Director of Admissions prior to the orientation period so that an appropriate assignment of adviser can be made.

Pre-Medicine, Pre-Dentistry, and Pre-Veterinary Medicine

Admission requirements to medical and dental schools vary. A student who expresses an interest in one of these professions is referred to an adviser who makes a continuing study of the requirements for admission to the professional schools and can advise students with respect to their choices of courses and with respect to academic standards expected of applicants.

Usually, no specific undergraduate major is stipulated by professional colleges, but there is a uniform minimum requirement of general chemistry, organic chemistry, biological science, physics and some college mathematics; the remainder of the undergraduate work should provide breadth of background and depth in natural sciences.

A pre-medical, pre-dental or pre-veterinary student who wishes to work toward a baccalaureate degree at Bloomsburg State College may choose a curriculum with a major as described in Section 7.2. The student, however, may find that the Broad Area Curriculum described in Section 7.3 provides greater flexibility than a curriculum with a major in a single discipline. Whether a student chooses a major or the Broad Area Curriculum, the pre-professional adviser is in position to advise the student in his choice of electives. If the student chooses a major he should work with two advisers, the adviser for his major and the pre-professional adviser. If he chooses the Broad Area Curriculum, the pre-professional adviser alone can serve.

Pre-Nursing

The College offers general education as well as natural sciences useful to students who plan to enter professional schools of nursing.

Other Pre-Professional Areas

The pre-professional adviser is prepared to advise students who are interested in admission to Schools of Pharmacy, Optometry, Occupational Therapy and Physical Therapy.

Pre-Law

Students who wish to prepare to study law should familiarize themselves with the entrance requirements of one or more law schools. A pre-legal adviser who makes a continuing study of the requirements of such schools is in position to advise the student in his choice of courses. Law schools ordinarily do not prescribe a particular undergraduate major; consequently, any major which is of interest to the prospective law student is likely to be acceptable. The Broad Area Curriculum described in Section 7.2 also lends itself to the needs of a pre-legal student.

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7.5 Course Descriptions

HEALTH AND PHYSICAL EDUCATION

Professors Conrad A. Bautz (Chairman), Stephen M. Bresett; Associate Professors Joan M. Auten, Russell E. Houk, Joanne E. McComb, Eli W. McLaughlin, Jerry K. Medlock, Ronald E. Puhl, Henry C. Turberville, Jr., Mary E. Wray; Assistant Professors Rodrick Clark Boler, Charles Chronister, Carl M. Hinkle, Burton T. Reese, Betty Jane Rost, Roger B. Sanders, William J. Sproule.

COURSES

(Code 05)

05.130 (099) PERSONAL FOUNDATIONS FOR PHYSICAL ACTIVITY . . . . . 1 sem. hr.

A co-educational course recommended to all freshmen to gain an appraisal of their physical and intellectual status for further course selections.

05.150 AQUATICS (Beginning-For Non-Swimmers-Co-ed) 1 sem. hr.

Provides opportunity to make the proper physical and mental adjustment to water; basic skills as provided by the American Red Cross with specific emphasis on becoming safe in, on, or about a body of water.

05.151 AQUATICS (Intermediate - Co-ed) . . . . . 1 sem. hr.

Preview of basic aquatic skills; advanced skills and swimming strokes with emphasis on form and efficiency; elementary rescues and aquatic games.

05.152 AQUATICS (Senior Lifesaving - Co-ed) . . . . . 1 sem. hr.

Opportunity to attain or renew the American Red Cross Senior Lifesaving Certificate. Demonstrated ability or instructor approval is a prerequisite.

05.153 WATER SAFETY INSTRUCTOR . . . . . 1 sem. hr.

Part I. Preview of the nine basic swimming strokes; techniques of lifesaving; other skills.

Part II. Improvement of skills and practice in teaching.

Prerequisite: Part I.

WSI, or Instructor of Beginning Swimming certificates may be awarded upon completion of all requirements and instructor approval, but certification is not required for credit.

Prerequisite: Successful completion of 05.152 or a valid Senior Lifesaving Certificate.

05.154 ADVANCED AQUATICS . . . . . 1 sem. hr.

Diving, underwater stunts, aquatic sports and basic skills in snorkle and scuba.

05.160 (098) HEALTH AND THE NATURE OF MAN . . . . 3 sem. hrs.

Specific health needs of college students and the world in which they will live.

05.214 FENCING . . . . . 1 sem. hr.

05.219 TENNIS . . . . . 1 sem. hr.

05.222 DANCING . . . . . 1 sem. hr.

05.228 GYMNASTICS . . . . . 1 sem. hr.

05.230 WEIGHT TRAINING AND FITNESS . . . . . 1 sem. hr.

05.231 ARCHERY . . . . . 1 sem. hr.

05.232 BOWLING (fee required) . . . . . 1 sem. hr.

05.233 BADMINTON . . . . . 1 sem. hr.

05.234 GOLF . . . . . 1 sem. hr.

05.235 RIFLERY (fee required) . . . . . 1 sem. hr.

05.236 VOLLEYBALL . . . . . 1 sem. hr.

05.237 MODIFIED PHYSICAL EDUCATION . . . . . 1 sem. hr.
(for approved students only)

05.238 HAND PADDLEBALL . . . . . 1 sem. hr.

05.239 SQUARE DANCE . . . . . 1 sem. hr.

05.240 SLIMNASTICS AND FITNESS . . . . . 1 sem. hr.

05.241 JUDO - SELF DEFENSE . . . . . 1 sem. hr.

NOTE: Activities courses 05.214 - 05.241 are intended to develop knowledge, skill and appreciation of the activity being taught. Primary emphasis has been placed on those activities possessing "lifetime" recreational values. All are co-educational.

05.242 PHYSIOLOGICAL AND MEDICAL ASPECTS OF ATHLETIC COACHING . . . . . 3 sem. hrs.

Basic anatomical and physiological factors affecting movement, endurance, strength, and conditioning in sports; equipment; training; care of injuries; safety problems; and medical research relating to athletics.

05.251 TECHNIQUES OF COACHING BASEBALL . . . . . 2 sem. hrs.

Development of individual skills and techniques of teaching and coaching baseball.

05.252 TECHNIQUES OF COACHING BASKETBALL . . . 2 sem. hrs.

Analysis of techniques and development of personal skills in basketball.

05.253 TECHNIQUES OF COACHING FOOTBALL . . . . . 2 sem. hrs.

Advanced instruction and practice in offensive and defensive fundamentals for each position; organizational methods and coaching principles.

05.256 TECHNIQUES OF COACHING CROSS COUNTRY, TRACK AND FIELD . . . . . 2 sem. hrs.

Advanced instruction and practice; rules and officiating techniques; organizational methods for conducting meets, tournaments, and clinics; coaching principles.

05.259 (257) TECHNIQUES OF COACHING WRESTLING . . . . . 2 sem. hrs.

Advanced instruction and practice; rules and officiating techniques; organization methods for conducting meets, tournaments, and clinics; coaching principles.

05.260 (258) TECHNIQUES OF COACHING SWIMMING . 2 sem. hrs.

Strategy, techniques, and theory for coaching interscholastic competition in swimming.

05.262 WOMEN'S EXTRAMURAL PROGRAM . . . . . 2 sem. hrs.

Theory, techniques, and strategy applicable to coaching women's varsity team sports.

05.301 BASIC ACTIVITIES I . . . . . 1 sem. hr.

Instruction and participation in elementary school rhythms, dance, and movement exploration. Includes classroom and laboratory work.

05.302 BASIC ACTIVITIES II . . . . . 1 sem. hr.

Instruction and practice in elementary school conditioning exercises; stunts and tumbling; games of low organization including running, circle tag, and classroom games; relays; and games for special occasions.

05.303 BASIC ACTIVITIES III . . . . . 1 sem. hr.

Instruction and practice in ball-type activities (elementary), lead-up games to team sports, simple team games, team sports, skill testing, and physical fitness testing.

05.311 METHODS AND MATERIALS IN ELEMENTARY SCHOOL PHYSICAL EDUCATION . . . . . 3 sem. hrs.

Provides principles and procedures to meet the needs and interests of elementary age children in the area of physical education. Not applicable to the HPE minor.

05.320 HEALTH AND SAFETY IN THE ELEMENTARY SCHOOL . . . . . 3 sem. hrs.

Provides students with health knowledge and training in the areas of elementary school environment and health appraisal techniques for teaching elementary school health, the elementary school health program, and safety education in the elementary school.

05.321 FIRST AID SAFETY . . . . . 2-3 sem. hrs.

Designed for the elementary-secondary teacher who needs training in first aid and safety. Red Cross Standard, Advanced, and Instructor certification may be obtained.

05.325 ANALYSIS OF MOTOR MOVEMENT . . . . . 2 sem. hrs.

To familiarize Area of Interest students with the ability to analyze various aspects of basic movements in physical activities.

05.331 RECREATIONAL EDUCATION . . . . . 2-3 sem. hrs.

Discussion of, and practice in, recreation activities used in school and playground situations. Emphasis is placed on recreation planning, techniques of leadership, and worthy use of leisure time.

05.333 SCHOOL CAMPING AND OUTDOOR EDUCATION . . . . . 3 sem. hrs.

Designed to acquaint students with the scope of organized camping and the acquisition of and practices in the basic skills required of teachers involved in camping and outdoor education training. Field experiences.

05.400 SEMINAR IN ELEMENTARY SCHOOL PHYSICAL EDUCATION . . . . . 3 sem. hrs.

Designed for the in-service teacher who wishes to acquire the latest knowledge and techniques in physical education at the elementary school level.

05.409 PRINCIPLES AND PROBLEMS OF SECONDARY SCHOOL ATHLETICS . . . . . 3 sem. hrs.

The planning and promoting of athletic programs; history, organization, administration, business procedures, public relations, and formulations of policy.

05.410 THE PLANNING AND ADMINISTRATION OF HEALTH AND PHYSICAL EDUCATION . . . . . 2 sem. hrs.

Philosophy, objectives, values, and techniques necessary to plan and evaluate a sound program in health and physical education for the elementary school.

05.411 ADAPTED PHYSICAL EDUCATION . . . . . 3 sem. hrs.

Study and practice in techniques used by physical educators to recognize and meet problems of the handicapped.

05.412 THE TEACHING OF HEALTH AND PHYSICAL EDUCATION IN THE ELEMENTARY GRADES . . . 3 sem. hrs.

Methods, materials, and practice in teaching health and physical education for primary, intermediate, and upper grades. Area of interest and in-service teachers only.

05.420 TECHNIQUES IN HEALTH AND PHYSICAL EDUCATION FOR SPECIAL EDUCATION TEACHERS . . . . . 3 sem. hrs.

Sound principles and procedures for meeting, physical, emotional and social needs of the mentally retarded.

05.430 HEALTH EDUCATION IN THE PUBLIC SCHOOLS . . . . . 3 sem. hrs.

Major problems which concern communities today: drugs, veneral disease, pollution, alcohol, and sexuality. Restricted to seniors and in-service teachers.

GROUP I: HUMANITIES

FOREIGN LANGUAGES

Professors Charles Whitney Carpenter II, Ariadna Foureman (Chairman), Eric W. Smithner, Alfred E. Tonolo, Associate Professors Blaise C. Delnis, Mary Lou John, Allen F. Murphy, George W. Neel; Assistant Professors Ben C. Alter, Christine T. Whitmer; Instructor Weston G. Donehower (part-time).

Placement Tests

Students who wish to continue a language studied previously must take placement tests and consult the department chairman for placement in college courses. (Placement tests are given during the Orientation period and during the first week of classes.)

Departmental Tests

All language majors are required to take tests in the four language skills upon completion of twenty-four semester hours of work above the 102 level. The tests are administered by the Department without cost to the student.

Language Laboratory

Weekly laboratory sessions are required in all elementary and intermediate courses. Students are encouraged to make additional use of the language laboratory facilities on a voluntary basis.

Programs Abroad

Each summer, the Department offers study programs abroad. Language majors are encouraged to participate in one of these programs before graduating.

Arts and Sciences Majors

Majors are offered in French, German and Spanish. A major for the B.A. degree requires a minimum of 30 semester hours in the language in courses beyond 101, 102; if a student is exempt from either or both of courses numbered 103, 104, he takes additional advanced electives as substitutes.

It is recommended that students who take a major in one of the languages also elect courses related in fields such as a second foreign language, fine arts, history, philosophy, theatre, sociology, speech.

Secondary Education Majors

Requirements for the major for the B.S. in Education degree are found in the section on Secondary Education, School of Professional Studies (Section 8.2.3.).

Elementary Education Minors

It is recommended that a student in Elementary Education who elects an area of concentration in foreign languages schedule one course in Conversation, one in Civilization, and the Folklore course. Beginning courses (101 and 102) may also be included within the required eighteen hours.

FRENCH

Arts and Sciences major for the B.A. degree:

French 10.103, 104, 201, 202, 211, 212;
Elective courses in French numbered above 200 to complete the minimum credit stated above: courses chosen from 10.301, 310, 401, 410 are recommended for students interested primarily in study of language and culture; courses chosen from 10.230, 231, 321, 322, 330, 430, 431, 432, 433, 434 are recommended for students who plan to attend graduate school or who are interested primarily in literature.

COURSES

(Code 10)

Courses designated † may be used toward General Education. Courses numbered 400 and above may also be used with special permission of the department.
(Note: Where course numbers have been changed, the former numbers appear in parentheses.)

10.101 ELEMENTARY FRENCH I † ..... 4 sem. hrs.

Audio-lingual approach leads to development of the four language skills. Basic grammar stressed. Weekly laboratory sessions required. *Fall only.*

10.102 ELEMENTARY FRENCH II † ..... 4 sem. hrs.

Continuation of Fr. 10.101. Reading and writing given additional emphasis. Weekly laboratory sessions required.
Prerequisite: 10.101 or equivalent.

10.103 INTERMEDIATE FRENCH I † ..... 3 sem. hrs.

Basic grammar is reviewed and new grammatical concepts are presented. Course taught in target language. Weekly laboratory sessions are required.
Prerequisite: 10.102 or equivalent.

10.104 INTERMEDIATE FRENCH II † ..... **3 sem. hrs.**

Continuation of French 10.103.
Prerequisite: 10.103 or equivalent.

10.201 GRAMMAR AND COMPOSITION † ..... **3 sem. hrs.**

In-depth study of French grammar. Stress on application of grammatical principles in controlled and free written compositions. *Fall.*
Prerequisite: 10.104 or equivalent.

10.202 CONVERSATION † ..... **3 sem. hrs.**

Student participation emphasized in prepared and free speaking activities. Outside readings and oral reports assigned. Grammar reviewed when necessary. *Spring.*
Prerequisite: 10.104 or equivalent.

10.204 FRENCH STUDIES ABROAD † ..... **6 sem. hrs.**

Prerequisite: Minimum 2 semesters of French.

10.209 PHONETICS † ..... **3 sem. hrs.**

Structural analysis of the French sound system. Drills on accurate pronunciation and intonation. Selections of prose and poetry presented for imitation. *Fall.*
Prerequisite: 10.102 or equivalent.

10.211 (210) FRENCH CULTURE AND CIVILIZATION I † ..... **3 sem. hrs.**

Major developments of French culture from the historical viewpoint. *Fall.*
Prerequisite: 10.104 or equivalent.

10.212 (210) FRENCH CULTURE AND CIVILIZATION II † ..... **3 sem. hrs.**

Major aspects of life in France today. *Spring.*
Prerequisite: 10.104 or equivalent.

10.230 INTRODUCTION TO THE STUDY OF LITERATURE † ..... **3 sem. hrs.**

Techniques of literary analysis. Comparative literary criticism: poem, play, novel, and essay. Basic concepts of genres, literary currents and schools.
Prerequisite: 10.104 or equivalent.

10.231 SELECTED READINGS † ..... **3 sem. hrs.**

French for reading knowledge; selected modern works.
Prerequisite: 10.104 or equivalent.

10.301 STRUCTURE AND TRANSLATION † ..... **3 sem. hrs.**

Study of structural patterns of French in comparison with English. Problems of translation. Recommended for students planning a career in international affairs. *Fall '75 and '77.*
Prerequisite: 10.201.

10.310 FOLKLORE †.....3 sem. hrs.

Study of folk genres based on both social and literary aspects of French folklore. Recommended for students in Elementary Education. *Spring '76 and '78.*
Prerequisite: 10.201.

10.321 SURVEY OF FRENCH LITERATURE I †.....3 sem. hrs.

Literature of France since the French revolution. *Fall.*
Prerequisite: 10.201 or 202.

10.322 (320) SURVEY OF FRENCH LITERATURE II †.....3 sem. hrs.

Literature of France since its earliest beginnings to the Revolution. *Spring.*
Prerequisite: 10.201 or 202.

10.330 SHORT STORY OR SHORT NOVEL †.....3 sem. hrs.

Selected works are read and discussed. Voltaire, Maupassant, Daudet and modern writers. Intended to promote literary appreciation. *Fall.*
Prerequisite: 10.201 or 202.

10.331 CONTEMPORARY PLAYS †.....3 sem. hrs.

Selected readings and discussions of major modern French playwrights: Cocteau, Sartre, Giraudoux, Anouilh, Camus, Ionesco, Beckett and others. *Spring.*
Prerequisite: 10.201 or 202.

10.341 FRENCH LITERATURE IN TRANSLATION I †...3 sem. hrs.

Reading, analysis and discussion of major French works in translation, beginning with the *Song of Roland* and continuing with authors such as Rabelais, Pascal, Moliere, Voltaire, Rousseau, Diderot and others. *Fall '74 and '76. Not open to French majors.*

10.342 FRENCH LITERATURE IN TRANSLATION II †...3 sem. hrs.

Readings in the novel and the theatre of 19th and 20th century with authors such as Balzac, Stendhal, Flaubert, Gide, Proust, Camus, Genet, Ionesco, and others. *Spring '75 and '77. Not open to French majors.*

10.401 (405) ADVANCED FRENCH LANGUAGE.....3 sem. hrs.

Thorough review of phonology, morphology, syntax and semantics. *Fall '75 and '77.*
Prerequisite: 10.201 or 202.

10.410 FRENCH AREA STUDIES.....3 sem. hrs.

Significant contemporary problems of France. Its positions in the world today and its relation to the United States. Reading of current French periodicals and magazines. Recommended for students planning to study abroad. *Spring '76 and '78.*
Prerequisite: 10.211 or 212.

10.430 20TH CENTURY FRENCH LITERATURE ..... 3 sem. hrs.

Readings, discussions, and reports on the literature and ideas of the current century beginning with short works in prose and including novels, plays, and some poetry. *Fall '75 and '77.*
Prerequisite: 10.321.

10.431 (430) 19TH CENTURY FRENCH LITERATURE ...3 sem hrs.

Readings, discussions, and reports on 19th century masters of the romantic, realistic, and naturalistic movements. *Spring '76 and '78.*
Prerequisite: 10.321.

10.432 (425) THE ENLIGHTENMENT .....3 sem. hrs.

Readings, discussions and reports on the ideas of the "philosophes." Works of Diderot, Voltaire, Rousseau, Montesquieu and others. *Fall '76 and '78.*
Prerequisite: 10.322.

10.433 (420) CLASSICISM .....3 sem. hrs.

The formation of the classic spirit. Readings, discussions, and reports on major dramatic works of Corneille, Moliere, Racine and others. *Spring '75 and '77.*
Prerequisite: 10.322.

10.434 (415) MIDDLE AGES AND RENAISSANCE .....3 sem. hrs.

Readings, discussions, and reports on the origin of French theatre, poetry, and prose. Works of Villon, Marot, Rabelais, Montaigne and others. *Spring '75 and '77.*
Prerequisite: 10.322.

10.498 (499) DIRECTED STUDIES .....3 sem. hrs.

Special area of language or literature. Allows the student to cover a particular aspect under special circumstances. Open to advanced French students with permission of the instructor. *Upon student needs.*
Prerequisite: Permission of Chairman.

GERMAN

Arts and Sciences major for the B.A. degree:

German 11.103, 104, 201, 202, 211, 212;
Elective courses in German numbered above 200 to complete the minimum credit of 30 semester hours beyond 11.102; courses chosen from 11.301, 310, 401, 410 are recommended for students interested primarily in the study of language and culture; courses chosen from 11.231, 321, 322, 330, 331, 430, 431, 433 are recommended for students who are interested primarily in literature or who plan to attend graduate school.

COURSES

(Code 11)

Courses designated † may be used toward General Education. Courses numbered 400 or above may also be used with special permission of the department.

(Note: Where course numbers have been changed, the former numbers appear in parentheses.)

11.101 ELEMENTARY GERMAN I † ..... 4 sem. hrs.

Audio-lingual approach leads to development of the four language skills. Basic grammar stressed. Weekly laboratory sessions are required. *Fall only.*

11.102 ELEMENTARY GERMAN II † ..... 4 sem. hrs.

Continuation of German 11.101. Reading and writing given additional emphasis. Weekly laboratory sessions required.
Prerequisite: 11.101 or equivalent.

11.103 INTERMEDIATE GERMAN I † ..... 3 sem. hrs.

Basic grammar is reviewed and new grammatical concepts are presented. Course taught in target language. Weekly laboratory sessions required.
Prerequisite: 11.102 or equivalent.

11.104 INTERMEDIATE GERMAN II † ..... 3 sem. hrs.

Continuation of Ger. 11.103.
Prerequisite: 11.103 or equivalent.

11.107 SCIENTIFIC GERMAN I † ..... 3 sem. hrs.

Intensive training in the use of German for purposes of understanding scientific articles and excerpts. Accuracy of translation is stressed. *Fall, every other year.*
Prerequisite: 11.102 or equivalent.

11.108 SCIENTIFIC GERMAN II † ..... 3 sem. hrs.

Continuation of Ger. 11.107. *Spring, every other year.*
Prerequisite: 11.107.

11.201 GRAMMAR AND COMPOSITION † ..... 3 sem. hrs.

In-depth study of German grammar. Stress on application of grammatical principles in controlled and free written composition. *Fall.*
Prerequisite: 11.104 or equivalent.

11.202 CONVERSATION † ..... 3 sem. hrs.

Student participation emphasized in prepared and free speaking activities. Outside readings and oral reports assigned. Grammar reviewed when necessary. *Spring.*
Prerequisite: 11.104 or equivalent.

11.204 GERMAN STUDIES ABROAD † ..... 6 sem. hrs.

Prerequisite: Minimum 2 semesters of German.

11.211 (210) GERMAN CULTURE AND CIVILIZATION I † ..... 3 sem. hrs.

An understanding of the geography, government, customs, education, arts, and history of the German-speaking countries, as well as a vivid sense of the current scences in these countries. *Fall.*
Prerequisite: 11.104 or equivalent.

11.212 (210) GERMAN CULTURE AND CIVLIZATION II † ..... 3 sem. hrs.

Continuation of 11.211. *Spring.*
Prerequisite: 11.104 or equivalent.

11.231 SELECTED READINGS † ..... 3 sem. hrs.

German for reading knowledge; selected modern works.
Prerequisite: 11.104 or equivalent.

11.301 (202) TEXTE ZUM NACHERZAEHLEN † ..... 3 sem. hrs.

Short prose selections are read and repeated from memory, building vocabulary growth and better expression. Exercises in translation to illustrate differences in thought and expressions between German and English. *'75 and '77.*
Prerequisite: 11.201 or 202.

11.310 FOLKLORE † ..... 3 sem. hrs.

Study of folk genres on both social and literary aspects of German Folklore. Recommended for students in Elementary Education. *Fall '76 and '78.*
Prerequisite: 11.201 or 202.

11.321 (320) SURVEY OF GERMAN LITERATURE I † ..... 3 sem. hrs.

Readings and discussions of representative works from the following periods; Old High German, Middle High German, Renaissance, Reformation, and Baroque. *Fall.*
Prerequisite: 11.201 or 202.

11.322 (321) SURVEY OF GERMAN LITERATURE II † ..... 3 sem. hrs.

Continuation of 11.321. Readings and discussions of representative works from the Enlightenment to the present. *Spring.*
Prerequisite: 11.201 or 202.

11.331 CONTEMPORARY PLAYS † ..... 3 sem. hrs.

Selected plays of the major modern German playrights: Brecht, Frisch, Durrenmatt, Weis, and others are read. *Fall '75 and '77. Prerequisite: 11.201 or 202.*

11.333 THE GERMAN NOVELLE † ..... 3 sem. hrs.

The *Novelle* as a literary form, its several types, and readings of well-known examples of the genre. *Spring '75 and '77.*
Prerequisite: 11.201 or 202.

11.401 (409) ADVANCED GERMAN LANGUAGE ..... 3 sem. hrs.

Through review of phonology, morphology, syntax and semantics. *Fall '75 and '77.*
Prerequisite: 11.201 or 202.

11.403 WORKSHOP . . . . . 3 sem. hrs.

Selected materials for practical use. Recommended for Secondary Education majors. *Summer session.*
Prerequisite: 11.201 or 202.

11.410 GERMAN AREA STUDIES . . . . . 3 sem. hrs.

Significant contemporary problems of German speaking countries. Their positions in the world today and relation to the United States. Reading of current German periodicals and magazines. Recommended for students planning to study abroad. *Spring '75 and '77.*
Prerequisite: 11.211 or 212.

11.420 MODERN GERMAN LITERATURE . . . . . 3 sem. hrs.

Reading and discussion of German Literature of the 19th and 20th Centuries up to World War II. *Fall '74 and '76.*
Prerequisite: 11.322.

11.421 CONTEMPORARY GERMAN LITERATURE . . . . . 3 sem. hrs.

Reading and discussion of German Literature since World War II. *Spring '74 and '76.*
Prerequisite: 11.322.

11.430 LESSING-GOETHE . . . . . 3 sem. hrs.

The life and works of these best-known of German authors and the effect their writings had in their time and subsequently. *Fall '75 and '77.*
Prerequisite: 11.322.

11.498 (499) DIRECTED STUDIES . . . . . 3 sem. hrs.

Special area of language or literature. Allows the student to cover a particular aspect under special circumstances. Open to advanced German students with with permission of the instructor. *Upon student needs.*

SPANISH

Arts and Sciences major for the B.A. degree:

Spanish 12.103, 104, 201, 202; 12.211 or 212;
Elective courses in Spanish numbered above 200 to complete the minimum credit of 30 semester hours beyond 12.102; courses chosen from 12.301, 310, 401, 410 are recommended for students interested primarily in the study of language and culture; courses chosen fron 12.230, 231, 321, 323, 324, 330, 430, 431, 440, 450, 460 are recommended for students who are interested primarily in literature or who plan to attend graduate school.

COURSES

(Code 12)

Courses designated † may be used toward General Education. Courses numbered 400 or above may be used with special permission of the department. (Note: Where course numbers have been changed, the former numbers appear in parentheses.)

12.101 ELEMENTARY SPANISH I† ..... 4 sem. hrs.

Audio-lingual approach leads to development of the four language skills. Basic grammar stressed. Weekly laboratory sessions required. *Fall only.*

12.102 ELEMENTARY SPANISH II † ..... 4 sem. hrs.

Continuation of 12.101. Reading and writing given additional emphasis. Weekly laboratory sessions required.
Prerequisite: 12.101 or equivalent.

12.103 INTERMEDIATE SPANISH I † ..... 3 sem. hrs.

Basic grammar is reviewed and new grammatical concepts are presented. Course taught in target language. Weekly lab sessions required.
Prerequisite: 12.102 or equivalent.

12.104 INTERMEDIATE SPANISH II † ..... 3 sem. hrs.

Continuation of 12.103.
Prerequisite: 12.103 or equivalent.

12.201 GRAMMAR AND COMPOSITION † ..... 3 sem. hrs.

In-depth study of Spanish grammar. Stress on application of grammatical principles in controlled and free written compositions. *Fall.*
Prerequisite: 12.104 or equivalent.

12.202 CONVERSATION † ..... 3 sem. hrs.

Student participation emphasized in prepared and free speaking activities. Outside readings and oral reports are assigned. Grammar.
Prerequisite:12.104 or equivalent.

12.204 SPANISH STUDIES ABROAD † ..... 6 sem. hrs.

Prerequisite: Minimum 2 semesters of Spanish.

12.209 PHONETICS † ..... 3 sem. hrs.

Contrastive analysis of English and Spanish sound systems. Consonantal sounds stressed. Outside reading and oral reports assigned. *Fall.*
Prerequisite: 12.102 or equivalent.

12.211 (210) SPANISH CULTURE AND CIVLIZATION † ..... 3 sem. hrs.

An understanding of Spain through geography, education, customs, fine arts, and history. *Fall.*
Prerequisite: 12.104 or equivalent.

12.212 (211) SPANISH AMERICAN CULTURE AND CIVILIZATION † ..... 3 sem. hrs.

An understanding and appreciation of the present and past life of the Spanish-American Republics. *Spring.*
Prerequisite: 12.104 or equivalent.

12.230 INTRODUCTION TO THE STUDY OF LITERATURE† . . . . . 3 sem. hrs.

Basic analysis of selected literary works of poem, play, novel, and essay. Basic concepts of genres, literary currents and schools. *Fall.*
Prerequisite: 12.104 or equivalent.

12.231 SELECTED READINGS † . . . . . 3 sem. hrs.

Spanish for reading knowledge; selected modern works. *Spring.*
Prerequisite: 12.104 or equivalent.

12.301 STRUCTURE AND TRANSLATION † . . . . . 3 sem. hrs.

Study of structural patterns of Spanish in comparison with English. Problems of translation. Recommended for students planning a career in international affairs. *Fall '75 and '77.*
Prerequisite: 12.201.

12.310 FOLKLORE † . . . . . 3 sem. hrs.

Study of folk genres based on both social and literary aspects of Spanish folklore. Recommended for students in Elementary Education. *Spring '76 and '78.*
Prerequisite: 12.201 and 202.

12.321 (301) SURVEY OF SPANISH LITERATURE I † . . . . . 3 sem. hrs.

Literature of Spain covering the 19th and 20th centuries. *Fall '75 and '77.*
Prerequisite: 201 or 202.

12.322 (301) SURVEY OF SPANISH LITERATURE II † . . . . . 3 sem. hrs.

Literary genres are traced from the medieval period through the 18th century. Principal writers and representative works are emphasized. *Spring '76 and '78.*
Prerequisite: 12.201 or 202.

12.323 (302) SURVEY OF SPANISH AMERICAN LITERATURE I † . . . . . 3 sem. hrs.

Literature of Spanish America from discovery to middle of 19th century. presentation of most significant figures. *Fall '74 and '76.*
Prerequisite: 12.201 or 202.

12.324 (302) SURVEY OF SPANISH AMERICAN LITERATURE II † . . . . . 3 sem. hrs.

Emphasis on Modernism, Post-Modernism, Vanguardismo, Essay, Theatre, and Novel. *Spring '75 and '77.*
Prerequisite: 12.201 or 202.

12.330 SHORT STORY † . . . . . 3 sem. hrs.

First genre course. Intended to promote library appreciation. Selected works are read and discussed. *Fall.*
Prerequisite: 12.201 or 202.

12.401 ADVANCED SPANISH LANGUAGE . . . . . 3 sem. hrs.

Thorough review of phonology, morphology, syntax, and semantics. *Spring '76 and '78.*
Prerequisite: 12.201 or 202.

12.410 SPANISH AREA STUDIES . . . . . 3 sem. hrs.

Significant contemporary problems of Spain or Spanish-America. Their position in the world today and relation to the United States. Reading of current Spanish periodicals and magazines. Recommended for students planning to study abroad. *Spring '75 and '77.*
Prerequisite: 12.211 or 212.

12.430 SPANISH NOVEL . . . . . 3 sem. hrs.

Emphasis on realistic novel of the 19th century. Such writers as Valera, Pereda, Galdos, "Clarin" are included. *Fall '74 and '75.*
Prerequisite: 12.321 or 322.

12.431 SPANISH AMERICAN NOVEL . . . . . 3 sem. hrs.

Representative trends from beginning to present time. *Spring '75 and '76.*
Prerequisite:12.323 or 324.

12.440 CONTEMPORARY PLAYS . . . . . 3 sem. hrs.

Reading and discussion of selected authors from late 19th century to the present. *Fall '74 and '76.*
Prerequisite: 12.321 or 324.

12.450 CONTEMPORARY POETRY . . . . . 3 sem. hrs.

A study of representative poets of Spain or Spanish-America. *Spring '74 and '76.*
Prerequisite: 12.321 or 324.

12.460 DRAMA OF THE GOLDEN AGE . . . . . 3 sem. hrs.

The theatre of Cervantes, Lope de Vega, Tirso de Molina, Mira de Amescua, Ruiz de Alarcon, Calderon, Rojas Zorrilla, Moreto. *Spring '75 and '77.*
Prerequisite: 12.322.

12.498 (499) DIRECTED STUDIES 3 sem. hrs.

Special area of language or literature. Allows the student to cover a particular aspect under special circumstances. Open to advanced Spanish students with permission of the instructor. *Upon student needs.*

RUSSIAN

COURSES

(Code 13)

† General Education courses.

13.101 ELEMENTARY RUSSIAN I† ..... 4 sem. hrs.

Audio-lingual and structural approach toward rapid development of acceptable pronunciation, vocabulary accumulation in a textual frame of reference. Understanding and speaking are stressed. Students learn to read and write the Cyrillic alphabet. *Fall.*

13.102 ELEMENTARY RUSSIAN II † ..... 4 sem. hrs.

Continuation of the development of the basic skills of understanding, speaking, reading, and writing. *Spring.*
Prerequisite: 13.101 or equivalent.

13.103 INTERMEDIATE RUSSIAN I † ..... 3 sem. hrs.

Maximum class use of the spoken language. Review of grammar and syntax based on excerpts from noted Russian authors. *Fall.*

13.104 INTERMEDIATE RUSSIAN II † ..... 3 sem. hrs.

Continuation and reinforcement of skills acquired in 13.103. A cultural reader and a scholastic Russian magazine are read. *Spring.*
Prerequisite: 13.103 or equivalent.

13.298 DIRECTED STUDIES ..... 3 sem. hrs.

Special area of language, culture and civilization, or literature. Allows the student to cover a particular aspect under special circumstances.
Prerequisite: Permission of chairman.

ENGLISH

Professors Louis F. Thompson (Chairman), Charles C. Kopp, Susan Rusinko, Janet Stamm, Thomas G. Sturgeon; Associate Professors Gerald H. Strauss, M. Dale Anderson, William D. Eisenberg, Ronald A. Ferdock, Alva W. Rice, William C. Roth, Richard C. Savage; Assistant Professors Virginia A. Duck, Lawrence B. Fuller, Nancy E. Gill, Eugene F. Gulley, Margaret Read Lauer, Dorothy O. McHale, Robert G. Meeker, B. Joyce Miller; Instructor Richard S. Devlin.

Arts and Sciences major for the B.A. degree:

English 20.260; 20.311 or 20.312 or 20.411; 20.490, 20.493;
Three courses chosen from 20.120, 121, 220, 221, 222, 223, 341, 342, 343, 344, 345;
One course chosen from 20.251, 280, 333, 360, 361, 362, 370, 371, 372, 373, 374, 380;
Three additional courses chosen from any of the above and 20.301, 302, 332, 334, 381, 382, 383, 491, 492; or two of the above plus one of the following: 20.105, 205, 255, 305, Speech 25.206, 208, 211, 231, 241, 312, 321, 411, 414, 415, 416.

Certificate in Journalism

The Certificate in Journalism implies introductory preparation for publication activity in teaching or in business. It is granted by the College when the student completes English 20.105, 205, 255 and at least two years of satisfactory service as a staff member of the *Maroon and Gold, Obiter, or Olympian.*

(Note: Requirements for the major for the B.S. in Ed. degree are found in the section on Secondary Education, School of Professional Studies, Section 8.2.3.)

COURSES

(Code 20)

Note: When course numbers have been changed, the former numbers are placed in parentheses for reference.

20.101 ENGLISH COMPOSITION . . . . . 3 sem. hrs.

Study intended to produce proficiency in reading and writing. Frequent themes; principles of rhetoric and grammar.

20.102 WRITING PROFICIENCY EXAMINATION . . . . . 3 sem. hrs.

A series of compositions written under examination conditions on topics provided by the staff. Faculty consultation and a writing laboratory are available for students in the course.

20.104 ENGLISH COMPOSITION . . . . . 3 sem. hrs.

Experiences similar to those of 20.101 but reserved for freshman who have been exempted from 20.101 on the basis of admissions criteria. Students who successfully complete 20.104 are exempt from 20.102.

20.105 (203) INTRODUCTION TO JOURNALISM † . . . . . 3 sem. hrs.

Emphasis on principles and techniques of reporting. Development of journalism; theory and practice of its principles; organizational patterns of news stories; methods of gathering news and writing various types of news stories; fundamentals of editing.

20.111 LANGUAGE AND SOCIAL INTERACTION † . . . . . 3 sem. hrs.

A survey of the history, varieties, forms and purposes of language and of the ways in which it may be used, understood, and described. *Not applicable toward a major in English.*

20.120 (207) WORLD LITERATURE I † . . . . . 3 sem. hrs.

Important literary works of the Western world—classic Greece to the Renaissance—in terms of genres and literary movements.

20.121 (208) WORLD LITERATURE II † . . . . . 3 sem. hrs.

A continuation of English 120, covering works of more recent date.

20.151 INTRODUCTION TO LITERATURE † . . . . . 3 sem. hrs.

A basic course exploring literature as experience and the techniques by which it communicates in short story, novel, drama, and poem. *Not applicable toward a major in English.*

20.153 FOLKLORE † . . . . . 3 sem. hrs.

A survey of such traditional forms of oral literature as epic, ballad, folksong, folktale, and superstitions, examined in terms of origin, transmission, and influence on literature. *Not applicable toward a major in English.*

20.205 (204) FEATURE WRITING † . . . . . 3 sem. hrs.

Methods of writing articles for newspapers and magazines. Techniques of gathering information and developing various types of feature articles. Study and discussion of published articles.
Prerequisite: 20.105.

20.220 (231) BRITISH WRITERS I † . . . . . 3 sem. hrs.

Survey of selections from Chaucer, Spenser, Shakespeare, Bacon, Donne, Milton, Dryden, Swift, Pope, Boswell, and Johnson.

20.221 (232) BRITISH WRITERS II † . . . . . 3 sem. hrs.

Survey of selections from Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson, Browning, Arnold, Shaw, Yeats, and Eliot.

20.222 (381) AMERICAN LITERATURE I † . . . . . 3 sem. hrs.

Survey of American literature from its Colonial beginnings through the Civil War, with emphasis on the writers of the American Renaissance.

20.223 (382) AMERICAN LITERATURE II † . . . . . 3 sem. hrs.

Continues 20.222, covering major writers and significant social and literary movements to the present day.

20.251 (209) LITERARY GENRES † . . . . . 3 sem. hrs.

Literary form as a vehicle for expression of ideas. Designed for English majors.

20.255 (301) INTRODUCTION TO MASS COMMUNICATIONS † . . . . . 3 sem. hrs.

The role of mass communications: theories and realities of the freedom of the press; growth of the print media; media of radio, television, and film; mass communications industries and professions; education for mass communication.

20.260 (249) SHAKESPEARE † . . . . . 3 sem. hrs.

Study of eighteen of Shakespeare's plays with emphasis on Shakespeare as poet and playwright and with attention to conditions of the Elizabethan theatre and the history of the Shakespearean text.

20.280 (325) POETRY † . . . . . 3 sem. hrs.

Designed to permit student exploration of the genre, under guidance of instructor. The nature of poetry—its aims, how it is created, historical and individual changes and variations in manner and matter.

20.301 (202) CREATIVE WRITING † . . . . . 3 sem. hrs.

Original creative work in one or more of the genres, as determined by the instructor, receives critical analysis by the instructor and the class in group discussion.

20.302 ADVANCED COMPOSITION † . . . . . 3 sem. hrs.

Designed for English majors and minors, though other students are admitted. Aims to develop in the student a greater mastery over the elements of effective writing. Attention is given to the problem of evaluating writing.
Prerequisite: Junior standing.

20.305 JOURNALISM SEMINAR † . . . . . 3 sem. hrs.

Independent study and practical training in covering college and community events to help the student understand techniques of in-depth reporting and learn how to polish a news story in terms of structure, analysis, and language.
Prerequisites: 20.105 and 20.255, or permission of instructor.

20.311 (401) STRUCTURE OF ENGLISH † . . . . . 3 sem. hrs.

A descriptive study of the phonology, morphology, syntax, and graphic formulas of modern American English.
Prerequisite: Junior standing.

20.312 (402) HISTORY OF THE ENGLISH LANGUAGE † . . . . . 3 sem. hrs.

A descriptive study of the causes and effects of phonemic, morphological, syntactic, and semantic change in the English language from the Anglo-Saxon conquest to the present.
Prerequisite: Junior standing.

20.331 (312) IDEAS IN LITERATURE † . . . . . 3 sem. hrs.

Examines such recurrent concepts in literature as the conflict between freedom and fate, the place of good and evil in the scheme of things, and the role of the individual in society.

20.332 (307) RUSSIAN LITERATURE IN TRANSLATION † . . . . . 3 sem. hrs.

An introduction to the "golden age" of Russian literature—from Pushkin to Sholokhov. Readings in English of novels, poems, plays, and short stories. Attention given to ideas reflected in the works as well as to the medium through which they are dramatized.

20.333 (386) LATER AMERICAN PROSE † . . . . . 3 sem. hrs.

Study of prose works of American literature, both fiction and non-fiction, from the late 19th century to the present, emphasizing literary merit and social significance. Such writers as Riis, Steffens, Sinclair, Allen, E. B. White, Thurber, Baldwin, Ellison, Steinbeck, Barrio, Momaday included.

20.334 MAJOR AMERICAN WRITERS † . . . . . 3 sem. hrs.

Study of major American writers instrumental in shaping and interpreting the American experience. Writers included will vary with each presentation of the course.

20.341 EARLY AND MIDDLE ENGLISH LITERATURE † . . . . . 3 sem. hrs.

A study of *Beowulf* and other Old English works in translation and of medieval chronicles and romances including *Sir Gawain and the Green Knight* and *Le Morte d'Arthur.*

20.342 (347) 16TH CENTURY LITERATURE † . . . . . 3 sem. hrs.

The non-dramatic prose and verse of the period, emphasizing the last quarter of the century. The humanists: Erasmus, More, Castiglione, Elyot, Ascham; Renaissance forms and ideas in Lyly, Sidney, Spenser, Daniel, Drayton, Shakespeare, Marlowe, Chapman, Greene, and others.

20.343 (352) 17TH CENTURY LITERATURE † . . . . . 3 sem. hrs.

Poetry and prose, beginning with Jonson. The rival traditions of Donne and Jonson in such poets as Herbert, Vaughn, Quarles, Cowley, Herrick, and Marvell. Principal prose writers: Burton, Browne, Taylor, Fuller, Baxter, Bunyan, and Dryden.

20.344 (347) 18TH CENTURY LITERATURE † . . . . . 3 sem. hrs.

Survey of literature of the Augustan Age in England: Addison and Steele, Swift, Pope, Boswell, and Johnson; forerunners of the Romantic Revival; beginnings of the British novel; the plays of Addison, Steele, Sheridan, and Goldsmith.

20.345 (364) 19TH CENTURY LITERATURE † . . . . . 3 sem. hrs.

Covers the major poets such as Wordsworth, Keats, Tennyson, Arnold, as well as major prose writers; Hazlitt, Lamb. Dequincey, Peacock, Newman, Huxley, Carlyle, and others.

20.351 (316) LITERATURE FOR CHILDREN † . . . . . 3 sem. hrs.

Examination and study of literature for children, with emphasis on criteria for selecting literature for the classroom and the library, suggestions for presenting literary works in the elementary classroom, and basic literary concepts. *Prerequisite: Junior standing.*

20.360 (342) EARLY ENGLISH DRAMA † . . . . . 3 sem. hrs.

Early native drama, including miracle and mystery plays, morality plays, and interludes. Elizabethan dramatists: Heywood, Marlowe, Kyd, Jonson, Webster, Middleton, and Ford.

20.361 (356) RESTORATION AND LATER DRAMA † . . . 3 sem. hrs.

Wycherly, Etherege, Congreve, Farquhar, Dryden, and Otway, with consideration of Moliere's influence in Restoration drama. Eighteenth century sentimental comedy and tragedy, and reaction against it in Goldsmith and Sheridan. Trends in 19th century drama.

20.362 (322) MODERN DRAMA † . . . . . 3 sem. hrs.

Major Continental, English, and American plays from Ibsen to Beckett, with emphasis on contemporary attitudes, themes, and structure as contrasted with those of traditional dramatists.

20.370 (358) 18TH CENTURY NOVEL † . . . . . 3 sem. hrs.

Emphasizes major novels of Defoe, Richardson, Fielding, Smollett, Sterne, and Austen; traces the development of the English novel from picaresque to realistic.

20.371 (363) 19TH CENTURY NOVEL † . . . . . 3 sem. hrs.

The major British writers of the Victorian period, with supplementary readings in the works of the great Continental novelists.

20.372 (324) MODERN NOVEL † . . . . . 3 sem. hrs.

A study of major modern novelists, exclusive of American and Russian writers. Emphasizes developments in fictional art, particularly realism, naturalism, impressionism, and the expressionism. Begins in the turn-of-the-century novel of Conrad and moves through the writings of Mann, Proust, Lawrence, Kafka, Woolf, Joyce, and/or one or two others of the instructor's choice.

20.373 (385) AMERICAN NOVEL † . . . . . 3 sem. hrs.

Studies the development of the novel in America from its beginnings about 1800 to the present. Emphasizes highlights of form, theme, and reflections of American literary and social movements. Some attention to parallel developments in the European novel.

20.374 (321) SHORT STORY † . . . . . 3 sem. hrs.

A study of the history, characteristics, and techniques of the modern short story through reading and analysis of representative samples—American, British, Continental, and Latin-American.

20.380 (326) MODERN POETRY † ..... 3 sem. hrs.

An introduction to contemporary poetic movements through study of Emily Dickinson, T. S. Eliot, e. e. cummings, Robert Lowell, Allen Ginsberg, Thomas Hardy, Gerald Manley Hopkins, W. B. Yeats, W. H. Auden, Dylan Thomas, and other poets.

20.381 (343) CHAUCER † ..... 3 sem. hrs.

Study of Chaucer's major poetry, with practice in speaking and reading Middle English and with major emphasis on Chaucer's literary achievement and his humanism.

20.382 (354) MILTON † ..... 3 sem. hrs.

A comprehensive study of the poetry and prose of John Milton.

20.383 (332) BLAKE AND YEATS † ..... 3 sem. hrs.

A study of two great poets united by their search for a vision and by having created in this search perhaps the most original and complete mythological systems in English literature.

20.411 (403) GENERATIVE-TRANSFORMATIONAL GRAMMAR ..... 3 sem. hrs.

Explores the most recent theories of grammatical analysis with particular attention to transformational grammar.
Prerequisite: Junior standing.

20.490 SEMINAR ..... 3 sem. hrs.

Independent study with opportunity to explore a literary subject not offered in regularly scheduled courses. Content, determined by instructor, varies each time the course is offered.
Prerequisite: Junior standing. Open to non-majors.

20.491 HONORS SEMINAR ..... 3 sem. hrs.

Independent study in depth of a literary topic, approved in prior consultation with the instructor, deriving from the student's work in other English courses. Limited to ten outstanding majors or non-majors with consent of instructor after an interview.
Prerequisite: Junior standing.

20.492 (405) CRITICISM ..... 3 sem. hrs.

For advanced students majoring in English. Examines works of major critics: Plato, Aristotle, Longinus, Sidney, Boileau, Coleridge, and others. Applies critical principles of literary texts.

20.493 BIBLIOGRAPHY AND LITERARY RESEARCH . . . 3 sem. hrs.

History of literary scholarship, study of book production, and practice in preparing specialized bibliographies and in planning scholarly projects.
Prerequisite: Junior Standing.

SPEECH

Professor Melville Hopkins (Chairman); Associate Professors William Acierno, Richard Alderfer, Erich Frohman, Michael McHale, Robert D. Richey; Assistant Professors Virginia Doerflinger, Harry Strine, Janice Youse; Instructor Hitoshi Sato.

Arts and Sciences major for the B.A. degree:

Speech 25.103, 206, 241, 312, 325; Speech 25.208 or 321;
Elective: Twelve semester hours in Public Address courses chosen from 25.105, 218, 231, 285, 307, 421, 492 or twelve semester hours in Theatre courses chosen from 25.211, 311, 318, 319, 411, 415, 416, 490. Total 30 semester hours.

COURSES

(Code 25)

Courses marked † may be used toward General Education.
(Note: Requirements for the major for the B.S. in Ed. degree are found in the section on Secondary Education, School of Professional Studies.)

25.103 INTRODUCTION TO SPEECH † ..... 3 sem. hrs.

A basic course in speech, with emphasis on interpersonal communication.

25.105 COMMUNICATION THEORY AND RHETORIC † ..... 3 sem. hrs.

Surveys classical rhetoric and contemporary theories in communication; includes behavioral science, semantics, and philosophy of language.

25.107 THEATRE ..... 1 sem. hr.

Participation in plays: acting or technical work. May be repeated for maximum of three semester hours.

25.108 FORENSICS ..... 1 sem. hr.

Participation in forensics: debate or individual speaking events. May be repeated for a maximum of three semester hours.

25.206 ORAL INTERPRETATION OF LITERATURE† .... 3 sem. hrs.

Practice in skills necessary for intellectual and emotional meanings of poetry and prose read to an audience.

25.208 INTRODUCTION TO THEATRE ARTS † ..... 3 sem. hrs.

A survey: criticism, direction, play production, theatre history, stage design, and acting.

25.211 THEATRE PRODUCTION † ..... 3 sem. hrs.

Planning, execution and supervising production work and business procedures.

25.218 DISCUSSION † ..... **3 sem. hrs.**

Survey of and practice in types and patterns of public discussion.

25.231 INTRODUCTION TO RADIO AND TELEVISION † ..... **3 sem. hrs.**

A survey of communication practices in radio and television. Laboratories in classroom.

25.241 VOICE AND DICTION † ..... **3 sem. hrs.**

A study of vocal organs and phonetics; practice for vocal effectiveness.

25.285 PARLIAMENTARY LAW † ..... **3 sem. hrs.**

Parliamentary procedure and practice in its usage.

25.307 BUSINESS AND PROFESSIONAL SPEECH † ... **3 sem. hrs.**

Business and professional communication; policy conferences and interviewing.

25.311 SCENE DESIGN † ..... **3 sem. hrs.**

Studies of design problems in various styles and periods; application of research and preparation of working drawings.
Prerequisite: Consent of Instructor.

25.312 FUNDAMENTALS OF ACTING † ..... **3 sem. hrs.**

Introduction to the theories and techniques of acting. Individual and group exercises.

25.314 STAGE AND LIGHTING: THEORY OF LIGHTING 3 sem. hrs.

Intensive study of theory; design of lighting of a production supplemented by applied work on productions.
Prerequisite: Consent of instructor.

25.318 CREATIVE DRAMATICS † ..... **3 sem. hrs.**

Improvisational techniques for the classroom for playmaking with children.

25.319 CHILDREN'S THEATRE † ..... **3 sem. hrs.**

Theories, techniques and literature of theatre for children. Laboratory hours.

25.321 ARGUMENTATION † ..... **3 sem. hrs.**

Basic principles of argument. Practice through debate; written practice through a brief.

25.325 EXTEMPORE SPEECH † ..... **3 sem. hrs.**

Analysis of extemporaneous speech based on the correlation of thinking and speaking.

25.411 PLAY DIRECTION ..... **3 sem. hrs.**

Study of the principles and techniques of play direction, with demonstrations, exercises, and production.

25.414 COSTUMING FOR THE STAGE . . . . . 3 sem. hrs.

Historical developments and elements of design. Laboratory hours.

25.415 HISTORY OF THE THEATRE . . . . . 3 sem. hrs.

Survey of structures, production practices, and plays from the beginnings to Ibsen.

25.416 MODERN THEATRE . . . . . 3 sem. hrs.

Practice and philosophy of theatre since Ibsen, with emphasis on American theatre.

25.421 PERSUASION . . . . . 3 sem. hrs.

Ethical and scientific approaches of human motivation. Principles and oral practice.

25.490 SPEECH SEMINAR: THEATRE . . . . . 3 sem. hrs.

A concentration may be offered on an individual artist, a period, or a movement in theatre.

25.492 SPEECH SEMINAR: PUBLIC ADDRESS . . . . . 3 sem. hrs.

Investigation in depth of a speaker, a period, or a movement.

PHILOSOPHY

Professor William L. Carlough (Chairman); Associate Professors Richard J. Brook, Oliver J. Larmi, Seymour Schwimmer.

Arts and Sciences Major for the B.A. degree:

Philosophy 28.302, 28.221, 28.230;
Philosophy 28.314 or 28.315;
18 semester hours elective.

COURSES

(Code 28)

Courses marked † may be used toward General Education.

28.211 INTRODUCTION TO PHILOSOPHY †.....3 sem. hrs.

Reflective inquiry into selected problems of general philsophic interest. Some of these are types of knowledge, nature of reality, individual and social values, and existence of God.

28.221 HISTORY OF ANCIENT PHILOSOPHY †.....3 sem. hrs.

A study of the origins of Western Philosophy in Ancient Greece. Plato's philosophical writings are examined in light of pre-Socratic speculation on the one hand and in terms of Aristotle's criticisms and developments on the other.

28.222 HISTORY OF MEDIEVAL PHILOSOPHY.....3 sem. hrs.

A study of the synthesis of Classical Greek Philosophy and Judeo-Christian Religion during the Middle Ages, with emphasis on arguments for the existence of God, the problem of religious discourse and the problem of universals.

28.230 HISTORY OF MODERN PHILOSOPHY †.....3 sem. hrs.

Examination of the beginnings of modern philosophy in the writings of 17th century Rationalists, 18th century Empiricists, and Kant. Topics include knowledge and scepticism, theory of abstractionism, mind-body problem, and problem of personal identity.

28.301 ETHICS †.....3 sem. hrs.

Analysis of prominent theories: ethical relativisim, hedonism, utilitarianism, duties, rights, justice; meaning and use of terms.

28.302 LOGIC †.....3 sem. hrs.

Methods and principles of reasoning with applications to contemporary debates. Informal fallacies; the syllogism; predicate calculus; quantification; and induction.

28.303 PHILOSOPHY OF SCIENCE †.....3 sem. hrs.

Analysis of logic and inquiry in the natural and social sciences; the nature of scientific explanation, problems of causality, measurement, prediction, and verification.

28.304 PHILOSOPHY OF THE SOCIAL SCIENCES † . . . **3 sem. hrs.**

Examination of conceptual problems in the social science disciplines, including objectivity, classification, explanation, nature of laws and reductionism.

28.306 PHILOSOPHY OF RELIGION † . . . . . **3 sem. hrs.**

Critical analysis of the origins and nature of religious faith. Attention given to types of religion, evidence supporting religious belief, and problems in and challenges to religion.

28.310 WORLD RELIGIONS I
India and East Asia . . . . . **3 sem. hrs.**

Examination of religious beliefs from primitive stages to the developed systems of Hinduism, Buddhism, Confucianism, Taoism and Shinto. Emphasis on beliefs, traditions and practices rather than historical data.

28.311 WORLD RELIGIONS II
Middle East and the West . . . . . **3 sem. hrs.**

Examination of the four great monotheisms, Zoroastrianism, Judaism, Christianity and Islam. Inquiry into the original literature as well as the evolving theologies. Modern issues within these religious traditions.

28.314 EXISTENTIALISM AND
PHENOMENOLOGY † . . . . . **3 sem. hrs.**

Consideration of writings of such men as Kierkegaard, Nietzsche, Husserl, Sartre, and Tillich. Major themes include human subjectivity, human freedom, alienation and meaning.

28.315 CONTEMPORARY ANALYTIC
PHILOSOPHY † . . . . . **3 sem. hrs.**

Examination of a 20th century philosophical movement concerned with logical analysis. Emphasis on analysts' reconstruction of the relation between language and philosophy, particularly theory of knowledge, ethics and religion.

28.351 THEORY OF KNOWLEDGE † . . . . . **3 sem. hrs.**

Inquiry into the problem of knowledge, certainty and skepticism. Theory of perception; concepts of meaning and truth.

28.402 CONTEMPORARY MORAL PROBLEMS † . . . . . **3 sem. hrs.**

Investigation of some of the major contemporary (and perennial) moral problems: crime and its punishment; freedom, compulsion and limits; the problem of priorities; conflict and community of interests.

28.431 PHILOSOPHY OF HISTORY . . . . . **3 sem. hrs.**

Philosophic issues of interest to the working historian, e.g., historical objectivity, historical explanation, history and the physical sciences, and the role of values in historical writing. The role of speculative philosophies of history in the writing of history.
Prerequisite: 3 semester hours of philosophy or 9 semester hours of history.

28.470 INDEPENDENT STUDY ..... 3 or 6 sem. hrs.

Individual study of a particular philosophical problem under the guidance of the staff. Emphasis upon independent research on topics selected by student and faculty. The course may be taken twice.
Prerequisite: 6 semester hours of philosophy and approval of the Department.

28.471 SEMINAR IN PHILOSOPHY ..... 3 sem. hrs.

Group study of a special topic, area or philosopher. Appropriate subjects for examination are selected in consultation between instructor and students.
Prerequisite: 6 semester hours of philosophy.

ART

Professors Percival R. Roberts, III (Chairman), Walter A. Simon; Associate Professors Kenneth T. Wilson, Stewart L. Nagel; Assistant Professors Karl A. Beamer, Robert B. Koslosky, Barbara J. Strohman; Instructors Gary F. Clark, Walter A. Carter.

Art and Sciences Major for B.A. degree:

Option I, Art History Concentration: Art 31.315, 325, 335, 345, 365, 375, 415, 495; 32.490.

Option II, Studio Concentration: Art 250 and 310; 101 or any art history; 330 or 340; 12 semester hours in one of the following: Ceramics, Drawing, Fabric Design, Graphics, Painting, Sculpture, Weaving.

COURSES

GENERAL — ART EDUCATION

(Code 30)

Courses marked † may be used toward General Education.

30.101 INTRODUCTION TO ART † ..... **3 sem. hrs.**

Great works of art, past and present, with an analysis of the structure of art as determined by civilization, communication, and expression.

30.305 CHILDREN'S ART ..... **3 sem. hrs.**

Art of children and ways to promote attitudes of discovery and invention, with emphasis on growth of expression.

30.385 PHILOSOPHY AND PSYCHOLOGY OF ART .... **3 sem. hrs.**

A study of major philosophical points of view governing an understanding and criticism of the arts, past and present, together with 20th century readings in the psychology of art and the content and biology of artistic form.

30.450 ART EDUCATION IN THE ELEMENTARY SCHOOL ..... **3 sem. hrs.**

Theories and techniques basic to the use of art in the elementary school.

ART HISTORY

(Code 31)

31.315 AMERICAN ART HISTORY † ..... **3 sem. hrs.**

A study of the history of the visual arts in America.

31.325 HISTORY OF ARCHITECTURE † ..... **3 sem. hrs.**

A study-survey of great architectural works of the past and present, including examples from both the East and West, with emphasis on sources for 19th and 20th century architectural design.

31.335 EUROPEAN ART HISTORY † ..... **3 sem.hrs.**

A study of the history of the visual arts on the European continent from the Greek era to the nineteenth century.

31.345 ORIENTAL ART HISTORY † ..... **3 sem. hrs.**

A study of the history of the visual arts in Japan, China, India and the countries of the Near East.

31.355 HISTORY OF MODERN ART † ..... **3 sem. hrs.**

Contemporary movements in art from the nineteenth century to the present.

31.265 RENAISSANCE ART ..... **3 sem. hrs.**

A specialized study of the art forms of Northern Europe and Italy from 1300 to 1700, utilizing illustrated lectures on painting, sculpture, architecture, the minor arts, and related fine arts of literature and music of the period; readings, seminar reports, and standard scholarship and research tools.

31.415 PRIMITIVE ARTS † ..... **3 sem. hrs.**

This course is also listed as Anthropology 46.410. Offered in cooperation with the Department of Sociology. A survey of graphic arts, literature, music and the dance of ancient and non-European cultures, with slides, films, specimens, and recordings.

31.375 INDEPENDENT STUDY IN ART HISTORY ..... **1-3 sem. hrs.**

Independent study involving research and scholarship in art history under the supervision of a faculty member and resulting in a scholarly contribution to the field and/or a published paper on a selected topic related to the student's research.

31.495 (499) VISUAL AESTHETICS .....

Seminar study of the "silent image" emphasizing artistic concern with environmental relationships, and theories of aesthetics and art criticism.

STUDIO

(Code 32)

Note: Studio courses meet 6 periods per week for 3 semester hours credit.

32.250 DESIGN I† ..... **3 sem. hrs.**

An introduction to principles of design and organization of the visual elements, involving both two and three dimensional problems.

32.275 GENERAL CRAFTS † ..... **3 sem. hrs.**

A broadly conceived program structured to introduce the art student to crafts methods, tools, materials and techniques, which will serve as a basis for selection of more specialized electives.

32.300 CERAMICS I † ..... **3 sem. hrs.**

An introduction to the processes of making and firing ceramic objects.

32.301 CERAMICS II ..... **3 sem. hrs.**

At this level the student is afforded the opportunity to become more involved by selecting his own methods of working.
Prerequisite: Art 300.

32.302 CERAMICS III ..... **3 sem. hrs.**

The student seeks specialization through the pursuit of making an art object.
Prerequisite: Art 301.

32.303 CERAMICS IV ..... **3 sem. hrs.**

The student will be responsible for making, firing, and showing his own wares.
Prerequisite: Art 302.

32.310 DRAWING I † ..... **3 sem. hrs.**

An introduction and application of the basic attitudes with which a person draws. Emphasis on visual awareness.

32.311 DRAWING II ..... **3 sem. hrs.**

Composition and form in drawing.
Prerequisite: Art 310.

32.312 DRAWING III ..... **3 sem. hrs.**

Stresses sending form into space.
Prerequisite: 32.311.

32.313 DRAWING IV ..... **3 sem. hrs.**

Stresses individuality and deep involvement of personal expression.
Prerequisite: Art 32.312.

32.320 FABRIC DESIGN I† ..... **3 sem. hrs.**

An introductory course in fabric and textile decoration. Study of dyes, textile paints and solvent solutions, fabrics and their nature, and textile designs.
Prerequisite: 32.250.

32.321 FABRIC DESIGN II ..... **3 sem. hrs.**

Resistive techniques in the dyeing of fabrics both natural and synthetic.
Prerequisite: 32.320.

32.322 FABRIC DESIGN III ..... **3 sem. hrs.**

An exploration of fabric decoration techniques.
Prerequisite: 32.321.

32.323 FABRIC DESIGN IV ..... **3 sem. hrs.**

Developing an individualistic approach to designing on fabrics by painting directly onto the fabric or combining techniques in a mixed media motif.
Prerequisite: 32.322.

32.330 PAINTING I † ..... **3 sem. hrs.**

Exploration and sensitivity to environment through paint.

32.331 PAINTING II ..... **3 sem. hrs.**

Painting, with attention to technical skill inherent in the style or technique of the student.
Prerequisite: 32.330.

32.332 PAINTING III ..... **3 sem. hrs.**

Development of maturity of style and statement.
Prerequisite: 32.331.

32.333 PAINTING IV ..... **3 sem. hrs.**

Advanced work planned for individual needs. Paintings are structured from experiences based upon previous development.
Prerequisite: 32.332.

32.340 SCULPTURE I† ..... **3 sem. hrs.**

A studio course in three-dimensional expression, with its primary goal to expose the student to basic sculptural materials.

32.341 SCULPTURE II ..... **3 sem. hrs.**

Continued development in the use of materials and processes directing itself towards unique individual expression.
Prerequisite: 32.340.

32.342 SCULPTURE III ..... **3 sem. hrs.**

Sculpture focuses on the expansion of expression and its relationships to sculptural processes.
Prerequisite: 32.341.

32.343 SCULPTURE IV ..... **3 sem. hrs.**

Advanced work planned for individual needs toward a maturing style in sculpture.
Prerequisite: 32.342.

32.350 WEAVING I † ..... **3 sem. hrs.**

An introduction to weaving. History of weaving, logic, tools, fibers (warp and fillings); dyeing warp, looms (parts and function).
Prerequisite: 32.250.

32.351 WEAVING II ..... **3 sem. hrs.**

Weaving techniques - experiencing the loom (hand weave - frame loom - table harness loom - Macrame).

32.352 WEAVING III ..... **3 sem. hrs.**

Continued experience in weaving techniques with emphasis on wall hangings, rugs and tapestry 2D or 3 D - double weave.
Prerequisite: 32.351.

32.353 WEAVING VI ..... **3 sem. hrs.**

Developing an individualistic approach to weaving by exploring and experimenting with weft and warp. Integrating and combining woven materials as well as non-woven materials in order to achieve a unified end-product.
Prerequisite: 32.352.

32.360 GRAPHICS I † ..... **3 sem. hrs.**

Exploration of the techniques of relief: woodcut, linocut, and collagraph; intaglio: etching, aquatint and drypoint; serigraphy: glue and film methods.

32.361 GRAPHICS II ..... **3 sem. hrs.**

Color and color registration methods. Concentration in serigraphy.
Prerequisite: 32.360.

32.362 GRAPHICS III ..... **3 sem. hrs.**

Exploration of mixed media techniques. Introduction to lithographic and photographic printmaking.
Prerequisite: 32.361.

32.363 GRAPHICS IV ..... **3 sem. hrs.**

Individual exploration of traditional and experimental printmaking methods. Emphasis on personal expression.
Prerequisite: 32.362.

32.370 ENAMELLING*† ..... **3 sem. hrs.**

Enamelling on metals, exploring multifaceted applications in jewelry and sculpture and wall plaques and investigating the basic processes such as cloisonne, plique-a-jour, inlay, basse-taille, etc.

32.380 JEWELRY MAKING* † ..... **3 sem. hrs.**

A study of jewelry forms past and present from the standpoint of both utility and design. Problems in wood and metals, ceramics, glass, and plastics, exploring contemporary jewelry forms and processes.

32.395 MEDIA ..... **3 sem. hrs.**

Exploratory experiences in sensory-aesthetic-perceptual problems in the plastic arts, individual as well as participatory, without emphasis on the finished product, to heighten the student's awareness and sensitivity to as wide a range of materials as possible, as well as innovative uses and applications of certain selected media.

† may be used toward the general education requirement.
* Courses offered every other year or as sufficient student enrollments are obtained.

32.400 FIGURE STUDY ..... 3 sem. hrs.**

A study of the theory and practice of depicting the human figure in a variety of media, draped and undraped, from still and action poses, singly and in groups, including analysis of outstanding figurative works of the past and present.

Prerequisite: 310, 311, 330, 340, 341; or consent of the instructor and the department chairman.

32.475 SPECIAL PROBLEMS IN ART ..... 1-3 sem. hrs.

Individualized independent study in studio areas. Amount of course credit awarded determined by instructor and written proposal of student with the consent of the department chairman on the basis of substance and depth of project to be undertaken.

Prerequisite: satisfactory completion of three levels of a studio area or its equivalent.

32.490 ART GALLERY*† ..... 3 sem. hrs.

A study of works by classical and contemporary artists in selected museums in New York and Pennsylvania, with emphasis on technique, visual concepts, aesthetics and historical context in both 2-d and 3-d forms, and study of the role of the art museum culturally and educationally. Visits to selected galleries are followed by in-depth study on campus together with special problems assigned in conjunction with the college art gallery arranged by its director.

* Courses offered every other year or as sufficient student enrollments are obtained.

** Note: The figure may also be incorporated in other advanced studio areas as well at the discretion of the instructor.

MUSIC

Associate Professors William K. Decker (Chairman), Sylvia H. Cronin, Nelson A. Miller, Richard J. Stanislaw; Assistant Professors John H. Couch, John P. Master, Stephen C. Wallace.

The Department of Music serves Elementary Education through courses which build a minor in music for elementary school teachers. It serves the entire college community through its music organizations, its opportunity for private lessons, concerts by the ensembles, recitals by students and faculty members, and through courses which may be taken in partial fulfillment of the Group I requirement in General Education.

Credit may be earned in three ensembles, the Maroon and Gold Band, the Concert Choir, and the Women's Choral Ensemble. There are four non-credit ensembles, the College-Community Orchestra, Men's Glee Club, Studio Band, and Madrigal Singers. Enrollment in the ensembles is open upon selection after director's audition. The Ensembles are described as courses 35.111-35.117.

Private lesssons in organ, piano, strings, woodwinds, brasses, and voice are available to properly qualified students. As many as six semester hours may be earned through private lessons in one of these instruments in as many consecutive semesters. The number of students accepted for private lessons is limited by available faculty, and continuation is reserved for those who exhibit continued development. Private lessons are described as courses 35.141-35.196.

COURSES

(Code 35)

Courses marked † may be applied toward the General Education requirement. Courses marked * are offered in alternate years or upon demand.

35.101 INTRODUCTION TO MUSIC † . . . . . 3 sem. hrs.

An approach to music listening through basic vocal and instrumental study. Analysis of varied masterpieces, composers, musical forms and styles. No previous musical experience necessary.

35.102 SURVEY OF MUSIC † . . . . . 3 sem. hrs.

Same subject matter as 35.101, but designed for students who have had pre-college study in a musical instrument or voice; analyses are more detailed than in the above course. Not to be scheduled in addition to 35.101.

35.111 MAROON AND GOLD BAND . . . . . 1 sem. hr.

Music varied styles and periods. May be repeated for a maximum of three semester hours. Four hours per week for two semesters of one academic year is required for one semester hour.

35.112 CONCERT CHOIR . . . . . 1 sem. hr.

Music of varied styles and periods, stressing oratorio and a cappella literature. Three hours per week for two semesters for one semester hour.

35.113 WOMEN'S CHORAL ENSEMBLE . . . . . 1 sem. hr.

Popular to masterworks. Three hours per week for two semester for one semester hour.

35.114 COLLEGE - COMMUNITY ORCHESTRA . . . . . No credit

Music appropriate to the small symphony orchestra. Two hours per week.

35.115 STUDIO BAND . . . . . No credit

Jazz, swing, and other forms representing the dance band style. Two hours per week.

35.116 MEN'S GLEE CLUB . . . . . No credit

Popular to masterworks. Two hours per week.

35.117 MADRIGAL SINGERS . . . . . No credit

Open to singers from other college vocal ensembles who pass the director's audition. Music chiefly from the Renaissance, but other styles and periods included. Two hours per week.

35.130 FUNDAMENTAL MUSICIANSHIP † . . . . . 3 sem. hrs.

Personal musical development: elementary theory, music reading, singing, playing simple instruments, simple chordings, transpositions, and bodily movement to music. Suggested for elementary and special education majors with little musical background as preparation for 35.311 or 35.131.

35.131 THEORY I † . . . . . 3 sem. hrs.

Harmony, including tonic, subdominant, and dominant chords. Sight-singing and keyboard harmonizations. Four hours per week.

35.132 THEORY II† . . . . . 3 sem. hrs.

Continuation of Theory I, including study of supertonic, submediant, and mediant chords, and common-chord and chromatic modulation. Melodic and harmonic dictation, sight-singing, and keyboard training. Four hours per week. *Prerequisite: 35.131.*

35.141 - 146 STRINGS I-VI . . . . . 1 sem. hr. each course

Private lessons for students with demonstrated ability or potential.

35.151 - 156 ORGAN I-VI . . . . . 1 sem. hr. each course

Private lessons for those who have previously studied organ or who have strong piano backgrounds.

35.161 - 166 BRASS I - VI . . . . . 1 sem. hr. each course

Private lessons in a brass instrument in which the student has demonstrated ability.

35.171 - 176 VOICE I - VI . . . . . 1 sem. hr. each course

Private lessons for student with demonstrated vocal ability.

35.181 - 186 PIANO I-VI . . . . . 1 sem. hr. each course

Private lessons for students who have had previous piano study.

35.191 - 196 WOODWINDS I-VI . . . . . 1 sem. hr. each course

Private lessons in an instrument in which the student has demonstrated ability.

35.221 (121) HISTORY OF MUSIC* † . . . . . 3 sem. hrs.

Music from atiquity to the present day with emphasis on pre-Baroque; active listening; development of a technical vocabulary.

35.222 (322) MUSIC OF THE ROMANTIC ERA* † . . . . . 3 sem. hrs.

Nineteenth century European music; composers; relationship of music to the culture of the time.
Prerequisite: 35.101 or 35.102.

35.242 CLASS PIANO I . . . . . 2 sem. hrs.

Group piano instruction for the beginner. Emphasis on solo playing, creating accompaniments, and sight reading. Three hours per week.

35.243 CLASS PIANO II . . . . . 2 sem. hrs.

Continuation of 35.242 for students of demonstrated ability. Developments of independence in solo playing and accompanying. Three hours per week.
Prerequisite: 35.242 or equivalent.

35.245 CLASS VOICE I . . . . . 2 sem. hrs.

Group voice instruction for the beginner. Emphasis on fundamental singing techniques and solo performance. Three hours per week.

35.251 AESTHETICS AND MUSIC CRITICISM* † . . . . . 3 sem. hrs.

Comparison of music objectives and philosophies of schools, eras, and individual composers. Principles of criticism that apply to music and its performance.

35.311 MUSIC IN THE ELEMENTARY SCHOOL . . . . . 3 sem. hrs.

Designed to provide prospective elementary school teachers with the skills, understanding, and attitudes which will help them to function effectively in the area of music in the self-contained classroom.
Prerequisite: juniors and seniors only.

35.323 TWENTIETH CENTURY MUSIC* † . . . . . 3 sem. hrs.

Compositions by composers from Debussy to the present; listening and analysis of representative works.
Prerequisite: 35.101 or 35.102.

35.324 AMERICAN MUSIC* † . . . . . 3 sem. hrs.

Analysis of works of selected American composers with reference to characteristics indigenous to American music.
Prerequisite: 35.101 or 35.102.

35.325 OPERA AND MUSIC THEATRE* † . . . . . 3 sem. hrs.

Great works of the lyric stage. Listening and readings concerning opera, operetta, and the popular theatre.
Prerequisite: 35.101 or 35.102.

35.326 MUSIC OF THE BAROQUE PERIOD* † . . . . . 3 sem. hrs.

Important forms of the Baroque era as presented in the works of Monteverdi, Bach, Handel, Vivaldi and their contemporaries.
Prerequisite: 35.101 or 35.102.

35.341 CHORAL TECHNIQUES* † . . . . . 3 sem. hrs.

Development of techniques and abilities for participating in and supervising choral ensembles. Tone production, proper breathing, conducting, and appropriate literature.

35.412 LITERATURE AND MATERIALS OF CHILDREN'S MUSIC . . . . . 3 sem. hrs.

Designed to provide elementary education students with a broad knowledge of the music program in the elementary grades. Review of basic texts, recordings, filmstrips, films; development of a repertoire of songs and rhythmic activities.
Prerequisite: 35.311.

35.421 THE CLASSICAL SONATA FORM* † . . . . . 3 sem. hrs.

Symphony, sonata, and chamber music from the Classical period with emphasis on the sonata form of the late 18th century. Key schemes, thematic development, and harmonic vocabulary.
Prerequisite: 35.101 or 102, 131, 132.

35.491 INDEPENDENT STUDY . . . . . 1-3 sem. hrs.

Student project of a creative nature in music history, education, or performance. Proposals must be accepted by department prior to registration. Final grade and amount of credit determined after presentation of completed project to department.

GROUP II: SOCIAL SCIENCE AND HISTORY

ECONOMICS

Professors T. S. Saini (Chairman), U. S. Bawa; Associate Professors, Robert MacMurray, Robert Ross, Philip Siegel; Assistant Professors Barbara Dilworth, Woo Bong Lee.

Arts and Sciences Majors for the B.A. and B.S. degrees:

Economics 40.211, 212, 311, 312, 346; and one of the options I, II or III.

Option I, B.A. degree, intended for general study of economics: One course from Economics 40.315, 423, 434, 424; one course from 40.313, 316, 317, 422; one course from Sociology 45.466, Economics 40.470, 490; one course from Geography 41.221, Psychology 48.351, Philosophy 28.301, Biology 50.351, Political Science 44.336, Sociology 45.316, History 42.378, 471, 472; fifteen semester hours elective in economics.

Option II, B.S. degree, intended for the student who is interested in analytical study of economics related to business: Business 91.221, 222, 93.343, 342, 345; twelve semester hours elective in economics.

Option III, B.A. degree, intended for the student whose interest is in Political Economy and who hopes to enter a career in some aspect of international relations or trade: Political Science 44.161, 336; Economics 40.460; twelve semester hours elective in economics; six semester hours elective in political science. (The following pairs of courses in economics and political science are recommended as especially pertinent to the purposes of Option III: 40.423 paired with 44.405; 40.422 with 44.366; 40.433 with 44.383; 40.316 with 44.453; 40.410 with 44.336; 40.315 with with 44.326.) Study of a foreign language recommended.

Electives in economics, business and political science in any of the options require the adviser's approval.

COURSES

(Code 40)

Courses marked † may be used toward General Education.

40.211 PRINCIPLES OF ECONOMICS I† . . . . . 3 sem. hrs.

The nature of economics; economic concepts and institutions; introduction to supply and demand and the price system; national income; employment and fiscal policy; monetary policy and economic stability and growth.

40.212 PRINCIPLES OF ECONOMICS II † . . . . . 3 sem. hrs.

The economics of resource allocation; price and output determination; current domestic economic problems; international economics and economic problems of newly developing countries.
Prerequisite: 40.211.

40.246 BUSINESS AND ECONOMICS MATHEMATICS † ..... 3 sem. hrs.

Introduction to the basic mathematical tools most frequently employed in intermediate economics and business, e.g. elementary and matrix algebra, analytical geometry, functions, differential and integral calculus, difference and differential equations, and linear programming.

40.311 INTERMEDIATE MICRO-THEORY AND MANAGERIAL ECONOMICS ..... 3 sem. hrs.

Theory of how a competitive market system determines the composition of output, allocation of resources, and distribution of income; comparison of theoretical and actual behavior of competitive, monopolistic and oligopolistic firms; general equilibrium and welfare economics. Modern theories of business decision making and actual business practices.
Prerequisite: 40.212.

40.312 INTERMEDIATE MACRO-ECONOMIC THEORY 3 sem. hrs.

Theory of determination of G.N.P., employment, and price level. Federal, state and local fiscal policy in the light of modern theory; principles of taxation and government spending; management of the national debt.
Prerequisite: 40.212.

40.313 LABOR ECONOMICS ..... 3 sem. hrs.

Practical questions in our modern industrial organization in the fields of management and labor unions; the economic life of members of the working force. The history of organized labor and the growth of theories in management; current policies in the national and state governments to control industrial relations.
Prerequisite: 40.212.

40.315 BUSINESS AND GOVERNMENT ..... 3 sem. hrs.

A survey of government policies for maintaining competition, for substituting regulation in place of competition and for substituting public for private enterprise; tests of various government policies in the light of economic theory and historical experience.
Prerequisite: 40.212.

40.316 URBAN ECONOMICS ..... 3 sem. hrs.

The application of economic theory and recent empirical findings to urbar resource use. Problems analyzed include employment, housing, education, transportation, pollution and minorities.
Prerequisite: 40.212.

40.317 POPULATION AND RESOURCE PROBLEMS .... 3 sem. hrs.

Classical theories of population growth, recent economic models of population correlating natural resources, capital accumulation, technological change. Population problems in North American, European and developing countries. Recent trends in birth and death rates as factors in population growth. Study of measures of population and labor force, their distribution by age, sex, occupation, regions; techniques for projecting population levels.
Prerequisite: 40.212.

40.346 BUSINESS AND ECONOMICS STATISTICS I . . . . 3 sem. hrs.

Descriptive statistics, averages, dispersion, elements of probability, index numbers, time series, introduction to regression and correlation analysis, theory of estimation and testing of hypothesis as applied to business and economic problems.
Prerequisite: 40.212.

40.400 INTRODUCTION TO ECONOMETRICS . . . . . 3 sem. hrs.

The application of modern statistical methods to economic problems; time series and cross-sectional analysis of measurements of demand and costs; macro-economic models; income distribution and growth model.
Prerequisite: 40.212.

40.410 PUBLIC FINANCE . . . . . 3 sem. hrs.

Analysis of revenues and expenditures of local, state and national government in light of micro- and macro-theory; criteria and models of government services; subsidies etc., principles of taxation, public borrowing and public debt management; impact of fiscal and budgetary policy on resource and income allocation, internal price and employment stability; the rate of growth and world economy.
Prerequisite: 40.212.

40.413 MONEY AND BANKING . . . . . 3 sem. hrs.

The historical background and development of monetary practices and principles of banking, with special attention to commercial banking and credit regulations, and current monetary and banking development.
Prerequisite: 40.212.

40.422 CONTRASTING ECONOMIES . . . . . 3 sem. hrs.

Theories of capitalism and socialism with special emphasis on Marxian theory. Comparison of theoretical and actual performance of capitalism, socialism and communism.
Prerequisite: 40.212.

40.423 HISTORY OF ECONOMIC THOUGHT . . . . . 3 sem. hrs.

Survey of economic theories propounded in the past and their effect on present day thinking about economic, business and political systems. The surplus value theory; economic planning as part of government responsibility; relation of family budgets to Engel's Law; government responsibility for employment and rent control.
Prerequisite: 40.212.

40.424 ECONOMIC HISTORY OF THE WESTERN WORLD . . . . . 3 sem. hrs.

Comparative analysis of the economic theory of Europe and the United States, with particular attention to the interplay of changes in business, financial and labor institutions, products and production, adaptations to resource differences, and conflicting economic doctrines.
Prerequisite: 40.212.

40.433 INTERNATIONAL ECONOMICS . . . . . 3 sem. hrs.

Pure theory of international trade. Gains from trade; free trade and protection; balance of payments; foreign exchange and capital movements; the dollar and the international monetary system and international liquidity shortage.
Prerequisite: 40.212.

40.434 ECONOMIC GROWTH OF UNDERDEVELOPED AREAS . . . . . 3 sem. hrs.

A study of stagnating economies: theories of underdevelopment; operative resistances to economic growth; role of capital, labor, population growth, and technological advance; development planning and trade in development setting.
Prerequisite: 40.212.

40.446 BUSINESS AND ECONOMICS STATISTICS II . . . 3 sem. hrs.

Sampling and sampling distributions; probability; tests of hypothesis; decision making; simple correlation analysis; contingency tables; analysis of variance; computer applications; designs of experiments.
Prerequisite: 40.212, 40.346.

40.460 ADVANCED POLITICAL ECONONY . . . . . 3 sem. hrs.

Application of economic and political models of social-decision making to historical problems from local through international levels; evaluation of market, political and mixed techniques in particular areas from the 18th through the 20th centuries.
Prerequisite: 40.212.

40.470 SENIOR SEMINAR . . . . . 3 sem. hrs.

Discussion of current literature on economic theory and economic policy. Each student reads one journal article a week on which he writes a report and makes a seminar presentation.
Prerequisite: Senior standing or permission of the instructor.

40.490 INDEPENDENT STUDY . . . . . credit to be arranged with the department

Open only to the final semester seniors. Topic and outline must be approved by the department during the preceding semester of residence.

45.466 RESEARCH METHODS IN THE SOCIAL SCIENCES . . . . . 3 sem. hrs.

This course is offered in the department of sociology and described with the sociology courses.
Prerequisite for students of economics: 40.346 and permission of Economics Department.

GEOGRAPHY AND EARTH SCIENCE

Professors Wendelin R. Frantz (Chairman), Bruce E. Adams, John A. Enman, Lee C. Hopple; Associate Professors Norman W. Gillmeister, Brian A. Johnson, James R. Lauffer, Lavere W. McClure; Assistant Professors Mark A. Hornberger, James T. Lorelli, Charles R. Mitke, Joseph R. Pifer, John Serff, Jr., Barry S. Siegal, George E. Stetson.

Arts and Science major in Geography for the B.A. degree:

41.101, 41.102; at least 24 semester hours elective credit in geography and earth science with at least one course from each of four areas: Systematic Physical, 41.253, 41.256, 51.101, 51.255, 51.259; Human Geography, 41.213, 41.221, 41.258, 41.310, 41.324, 41.463; Regional, 41.321, 41.333, 41.343, 41.344, 41.345, 41.346; Techniques, 41.354, 41.462.

COURSES

(Courses in Earth and Space Science are listed under Code 51)

GEOGRAPHY

(Code 41)

Note: When course numbers have been changed, the former numbers are placed in parentheses for reference.

Courses marked † may be applied toward general education requirements. Any other courses may also be applied provided one of these has been taken.

41.101 WORLD PHYSICAL GEOGRAPHY † ..... **3 sem. hrs.**

Earth-sun relationships, land masses, oceans, landforms, weather and climate, and natural resources as elements and controls related to the adjustments man makes to his environment.

41.102 WORLD CULTURAL GEOGRAPHY † ..... **3 sem. hrs.**

Designed to show the relationship of man, land, culture and economic activities.

41.125 (225) WEATHER AND CLIMATE ..... **3 sem. hrs.**

A study of the interrelationships between the elements of weather and climate; the functional application of these elements is elaborated upon through a study of climatic realms. Students having taken 51.255 may not enroll in or receive credit for 41.125.

41.213 (323) POLITICAL GEOGRAPHY .....

An analysis of physical, human, and economic factors which influence the changing pattern of the political map of the world.

41.221 (121) ECONOMIC GEOGRAPHY ..... **3 sem. hrs.**

Major economic activities; focus on significant characteristics, location theory and spatial patterns.

41.253 (353) PHYSIOGRAPHY ..... 3 sem. hrs.

The study of the dynamic,tectonic, and gradational forces, which, in conjunction with climatic and biologic forces, have shaped the earth into its present form and continuously refashion and modify it. Students having taken 51.365 may not enroll in or receive credit for 41.253.

41.256 (356) CLIMATOLOGY ..... 3 sem. hrs.

An analysis of climate (temperature, moisture, pressure, wind, air masses and storms) and the world-wide distribution of climates.

41.258 (358) CONSERVATION OF NATURAL RESOURCES ..... 3 sem. hrs.

The importance of vital resources to economy and to human existence with emphasis upon this country; conservation of soils, forests, grasslands, water, minerals, air, and human resources.

41.310 POPULATION GEOGRAPHY ..... 3 sem. hrs.

A quantitative analysis of demographic data and qualitative examination of population characteristics.

41.321 (223) GEOGRAPHY OF ANGLO-AMERICA ..... 3 sem. hrs.

A spatial analysis of the United States and Canada in terms of physical and cultural elements.

41.324 (224) GEOGRAPHIC INFLUENCES IN AMERICAN HISTORY ..... 3 sem. hrs.

Relationship between the historical movements and the natural environments in the United States.
Prerequisite: 42.222.

41.333 (233) GEOGRAPHY OF EUROPE ..... 3 sem. hrs.

Europe's physical characteristics, topography, transportation systems, resources, population, and trade.

41.343 (243) GEOGRAPHY OF ASIA ..... 3 sem. hrs.

Physical and Cultural Characteristics of South and East Asia (Pakistan through Japan).

41.344 (244) GEOGRAPHY OF LATIN AMERICA ..... 3 sem. hrs.

Human and physical factors of the geographic environment of South America, Central America and the islands of the Caribbean Sea.

41.345 (245) GEOGRAPHY OF AFRICA ..... 3 sem. hrs.

Physical geographic elements as they relate to agriculture, grazing, mining, manufacturing, transportation, communication, and political boundaries of the continent.

41.346 (246) GEOGRAPHY OF THE SOVIET REALM ... 3 sem. hrs.

Physical and human geography of the Soviet Union with some emphasis upon the relationship between that country and the so-called "satellite" nations.

41.354 CARTOGRAPHY . . . . . 3 sem. hrs.

Use, construction, and interpretation of maps, models, globes, charts, and geographic diagrams.

41.462 THEORETICAL AND QUANTITATIVE GEOGRAPHY . . . . . 3 sem. hrs.

Conceptual frameworks, theoretical developments, methods of measuring intensity and dispersion of geographical distributions, and quantitative approaches in geographical analyses. 2 hours class and 2 hours laboratory/ week.

41.463 (363) URBAN GEOGRAPHY . . . . . 3 sem. hrs.

Designed to provide a conceptual and methodological framework in which to view the process of urbanization.

41.475 SPECIAL PROBLEMS IN GEOGRAPHY . . . . . 1-3 sem. hrs.

Independent, investigative research oriented to studies of specific geographical problems.
Prerequisite: for Junior and Senior Geography majors.

41.492 GEOGRAPHY SEMINAR . . . . . 3 sem. hrs.

Student pursues in depth topics and problems involving the literature, techniques, and practical application of Geography.
Prerequisite: 21 semester hours in Geography.

HISTORY

Professors Robert D. Warren (Chairman), Hans K. Gunther, John A. Hoch, Craig A. Newton, H. Benjamin Powell, John J. Serff, Sr., James R. Sperry; Associate Professors Richard G. Anderson, John C. Dietrich, Theodore Shanoski, Ralph Smiley, Anthony J. Sylvester, George A. Turner, James R. Whitmer, John B. Williman; Assistant Professor Arthur Lysiak.

Arts and Sciences major for the B.A. degree:

History 42.398; 27 semester hours elective in courses in history including at least 15 semester hours numbered above 300.

COURSES

(Code 42)

Courses marked † may be used toward General Education.
Prerequisites are subject to modification by the instructor.

42.111 WORLD HISTORY TO 1500 † . . . . . 3 sem. hrs.

Survey of the development of man and his culture throughout the world from earliest times to 1500.

42.112 WORLD HISTORY, 1500 to 1815 † . . . . . 3 sem. hrs.

Political, social, economic and cultural forces in the Western and non-Western world, 1500 to 1815.

42.113 WORLD HISTORY SINCE 1815 † . . . . . 3 sem .hrs.

Political, social, economic and cultural forces since the Napoleonic period with emphasis upon increasing importance of the non-Western world in the development of the modern world.

42.208 CONTEMPORARY ISSUES IN UNITED STATES HISTORY† . . . . . 3 sem. hrs.

Study of issues such as the black American, dissent, urban America, the role of the military and labor, the United States as a global power.

42.221 UNITED STATES HISTORY SURVEY: COLONIAL PERIOD TO 1877 † . . . . . 3 sem. hrs.

A chronological history to 1877 with emphasis on the evolution of political, economic, social and cultural aspects.

42.222 UNITED STATES HISTORY SURVEY: 1877 TO THE PRESENT † . . . . . 3 sem. hrs.

Political, social, intellectual and economic developments of the United States from Reconstruction to the present.

42.223 ECONOMIC HISTORY OF THE UNITED STATES † . . . . . 3 sem. hrs.

To understand the changing nature of the American economy, this course covers three time periods: the commercial-agricultural age, the industrial age,

and the modern managerial age. Agriculture, banking, business administration, commerce, labor, manufacturing, mining and transportation; social and political factors that contributed to changing economic relationships in the United States.

42.312 CLASSICAL WORLD . . . . . 3 sem. hrs.

The ancient world from the ancient Near East to the fall of the Roman Empire in the West, with an intensive emphasis upon Greece, Rome, the rise of Christianity, and their influence on Western European civilization.
Prerequisite: 42.111.

42.314 MEDIEVAL EUROPE . . . . . 3 sem. hrs.

Study of the peoples and countries which emerged following the fall of the Roman Empire in the West; critical analysis of feudalism and manorialism; development of Western institutions and of the church and temporal authorities to the late 14th century.
Prerequisite: 42.111.

42.318 ENGLAND TO 1688 . . . . . 3 sem. hrs.

Political, economic, social, and cultural life in England to the Glorious Revolution.
Prerequisite: 42.111 or 42.112.

42.319 ENGLAND SINCE 1688 . . . . . 3 sem. hrs.

Political, social, economic, and cultural developments in England from the Glorious Revolution to the present with emphasis upon the development of democracy, the Industrial Revolution, and the growth and decline of the British Empire.
Prerequisite: 42.112 or 42.113.

42.322 RENAISSANCE AND REFORMATION ERAS . . . . 3 sem. hrs.

Political, social, economic, literary, artistic, and intellectual developments from c. 1300 in Italy and including the spread of the Renaissance throughout Europe; also a critical study of the Protestant and Catholic reformations in relation to the political, economic, social, and cultural developments in Western Europe in the 16th and 17th centuries.
Prerequisite: 42.111 or 42.112.

42.323 EUROPEAN IMPERIALISM . . . . . 3 sem. hrs.

A survey of the rise, course and decline of European penetration of the non-Western world from the 16th century to the present; motivations, types and patterns of European colonial activity; the process of decolonization and its impact on world history.
Prerequisite: 42.112 or 42.113.

42.324 ABSOLUTISM AND ENGLIGHTENMENT . . . . . 3 sem. hrs.

Rise of the modern state; political, intellectual, social, economic, and cultural aspects of the eras of the Scientific Revolution and Enlightment; the establishment of European world hegemony and a world economy; diplomatic and military interaction of the European states.
Prerequisite: 42.112.

42.329 EUROPE 1789-1850: THE AGE OF REVOLUTION . . . . . 3 sem. hrs.

The Revolutionary Age beginning with the French Revolution: the Napoleonic Era; restoration and reaction; the rise of 19th century nationalism; reforms and revolts of the 1830's and 1840's; the Industrial Revolution; the rise of democracy and totalitariansim; romanticism and realism.
Prerequisite: 42.112 or 42.113.

42.330 EUROPE 1850-1914: THE AGE OF NATIONALISM AND IMPERIALISM . . . . . 3 sem. hrs.

A study of the later Industrial Revolution and the age of technology, and the new doctrines of materialism, socialism, and imperialism: the unification of Germany and Italy; the Second Empire in France; the growth of liberalism in England and Russia; rise of East European Nationalism; French, German, and British home policies.
Prerequisite: 42.113.

42.346 (428) INTELLECTUAL HISTORY OF EUROPE SINCE THE ENLIGHTENMENT . . . . . 3 sem. hrs.

Changes in currents of thought during the period are related to political, economic, and social developments. Special attention given to various interpretations of major intellectual movements.
Prerequisite: 42.112 or 42.113.

42.348 CONTEMPORARY EUROPE CULTURE TOUR . . . 6 sem. hrs.

Professionally guided study tour of Western Europe, usually scheduled in summers. Research paper required.

42.351 LATIN AMERICA: THE COLONIAL PERIOD . . . . . 3 sem. hrs.

The extension of Iberian institutions to the New World and the acculturation process. Examination and evaluation of the economic, social and religious institutions of Portugese and Spanish America in the colonial period, 1492-1823.
Prerequisite: 42.111 or 42.112.

42.352 LATIN AMERICA: THE NATIONAL PERIOD . . . . . 3 sem. hrs.

After a brief summary of the course and results of the revolutionary era, attention is devoted to the economic, social, and political development of individual nations.
Prerequisite: 42.111 or 42.112.

42.354 THE MODERN FAR EAST . . . . . 3 sem. hrs.

Eastern Asiatic civilizations with emphasis upon cultural change and political response in consequence of European expansion and the spread of nationalism.
Prerequisite: 42.113.

42.356 RUSSIA TO 1917 . . . . . 3 sem. hrs.

Survey of Russia from the beginning of the Russian State in the ninth century through the Kievan, Musovite, and Imperial periods to the Bolshevik Revolution of 1917.
Prerequisite: 42.112 or 42.113.

42.358 MODERN AFRICA ..... 3 sem. hrs.

Surveys the transformation of the societies of Sub-Sahara Africa from colonialism to national independence.
Prerequisite: 42.112 or 42.113.

42.362 THE NEAR AND MIDDLE EAST SINCE 1800 .... 3 sem. hrs.

Surveys Islamic civilization, the Turkish and Persian empires, European imperialism, Arab nationalism, and Jewish history, with prime focus on the Arab-Israeli conflict.
Prerequisite: 42.112 or 42.113.

42.371 AFRO-AMERICAN IN UNITED STATES HISTORY ..... 3 sem. hrs.

Afro-American background in Africa; the travail of slavery; release from bondage; accommodation and protest; the black revolution; significance and influence of the Afro-American in United States History.
Prerequisite: 3 sem. hrs. U.S. Survey.

42.372 COLONIAL AMERICA ..... 3 sem. hrs.

European colonization in North America with major attention to the establishment and development of England's thirteen colonies and an emphasis upon the problems which created the conflict between the American colonies and the British Empire resulting in the American War of Independence.
Prerequisite: 3 sem. hrs. U.S. Survey.

42.373 THE UNITED STATES FROM THE REVOLUTION TO THE CIVIL WAR ..... 3 sem. hrs.

A comprehensive study of selected topics of political, social, and economic significance within the time period, with emphasis upon the expansion and disunion of the United States.
Prerequisite: 3 sem. hrs. U.S. Survey.

42.375 THE UNITED STATES FROM THE CIVIL WAR TO WORLD WAR I ..... 3 sem. hrs.

Major topics such as the Civil War, Reconstruction, the Gilded Age, Emergence of Big Business, Social Darwinism, Populism, Progressivism and World War I are selected for discussion.
Prerequisite: 3 sem. hrs. U.S. Survey.

42.377 CONTEMPORARY UNITED STATES, WORLD WAR I TO THE PRESENT ..... 3 sem. hrs.

Major themes such as Republican ascendancy, FDR and the New Deal, the Cold War, minority rights, violence in contemporary America, militarism, and the role of the individual in today's society are selected for discussion.
Prerequisite: 3 sem. hrs. U.S. Survey.

42.388 PENNSYLVANIA ..... 3 sem. hrs.

Major contributions of Pennsylvania to national life; relations between state and national movements.
Prerequisite: 3 sem. hrs. U.S. Survey.

42.391 DIPLOMATIC HISTORY OF THE UNITED STATES TO 1898 . . . . . 3 sem. hrs.

A critical analysis of United States foreign relations from the Colonial period to the 1898 war with Spain.
Prerequisite: 3 sem. hrs. U.S. Survey.

42.392 DIPLOMATIC HISTORY OF THE UNITED STATES SINCE 1898 . . . . . 3 sem. hrs.

A critical analysis of United States foreign relations from the war with Spain in 1898 to the present.
Prerequisite: 3 sem. hrs. U.S. Survey.

42.396 (496) SELECTED POLITICAL AND CONSTITUTIONAL PROBLEMS . . . . . 3 sem. hrs.

A topical approach to various political and constitutional problems of American life.
Prerequisite: 3 sem. hrs. U.S. Survey.

42.398 (399) BIBLIOGRAPHY AND RESEARCH . . . . . 3 sem. hrs.

Basic historical bibliography with exercises in location and use; analysis of problems and tools of historical research and a practical application of research methods.
Prerequisite: 3 sem. hrs. U.S. History.

42.412 CENTRAL EASTERN EUROPE SINCE 1815 . . . . 3 sem. hrs.

Survey of the political and cultural development of the nations of Europe which lie between Germany and Italy on the west and Russia on the east since their emergence as independent nation-states in the nineteenth and twentieth centuries.
Prerequisite: 42.113.

42.424 EUROPE 1914-1939; THE FIRST WORLD WAR AND THE AGE OF THE DICTATORS . . . . . 3 sem. hrs.

The decline and fall of European hegemony in world affairs and the traditional standards of Western society under the impact of the "Great War" and the "Great Depression." The phenomenon of totalitarianism as it manifested itself in fascist Italy, Nazi Germany, and communist Russia.
Prerequisite: 42.113.

42.425 EUROPE SINCE 1939 . . . . . 3 sem. hrs.

A survey of the major European powers in the late 1930's, emphasizing the policies of the dictators leading to war; military and diplomatic developments of World War II and the causes of the East-West rift; the reconstruction of democracy in Europe; the formation of the Soviet bloc; European integration; important current political trends in the major power systems.
Prerequisite: 42.113.

42.452 (357) SOVIET RUSSIA . . . . . 3 sem. hrs.

Critical analysis of the political, social, economic, and cultural evolution of the Soviet Union, and a study of Soviet foreign policy and international relations.
Prerequisite: 42.113.

42.454 CHINA AND JAPAN IN THE TWENTIETH CENTURY . . . . . 3 sem. hrs.

Political, social, and economic problems in the rise of these nations to international power.
Prerequisite: 42.113.

42.455 SOUTHEAST ASIA . . . . . 3 sem. hrs.

Influences from India, from China, from the Arabs and from Europe. Treats individual countries, with emphasis on geographical, political, cultural, literary, religious, philosophical, and international factors.
Prerequisite: 42.112 or 42.113.

42.456 SELECTED PROBLEMS IN AFRICA AND IN THE NEAR AND MIDDLE EAST . . . . . 3 sem. hrs.

Intensive study of critical social, political and economic problems of the contemporary peoples and nations in these regions.

Prerequisite: 42.112 or 42.113.

42.471 THE INDUSTRIAL REVOLUTION IN THE UNITED STATES . . . . . 3 sem. hrs.

The industrialization of the American economy is traced within a broad social and political context. Major attention is directed toward the industrial revolution, the emergence of big business at the turn of the twentieth century, and the corporate revolution, and the place of major industries at mid-century.
Prerequisite: 9 sem. hrs. of history.

42.472 HISTORY OF LABOR IN THE UNITED STATES . . 3 sem. hrs.

Surveys the problems of labor from the colonial period to the present, with emphasis upon the development of unions and their role in national life.
Prerequisite: 9 sem. hrs. of history.

42.481 UNITED STATES SOCIAL HISTORY AND POPULAR CULTURE TO 1860 . . . . . 3 sem. hrs.

Considers English institutions having relevance to colonial society, the subsequent impact of the frontier on American institutions, and emerging social differences between the North and South. Popular customs, attitudes, and habits, class and family structure, slavery, and prevailing moral standards.
Prerequisite: 9 sem. hrs of history.

42.482 UNITED STATES SOCIAL HISTORY AND POPULAR CULTURE SINCE 1860 . . . . . 3 sem. hrs.

The interaction of labor and farm organizations, business corporations, racial and ethnic groups, within an increasingly urban and industrial society. The impact of new technology and additional leisure on entertainment, popular reading habits, education, and moral standards.
Prerequisite: 9 sem. hrs. of history.

POLITICAL SCIENCE

Professors Robert L. Rosholt (Chairman), Charles G. Jackson; Associate Professors Martin M. Gildea, Prakash C. Kapil, James W. Percey.

Arts and Sciences major for the B.A. degree:

Political Science 44.101;
Political Science 44.161 or, if qualified, 44.181;
One Course from 44.403, 405, 409, 418, 492;
One Course from 44.181, 363, 366, 368, 371, 373, 383, 487;
Twelve semester hours elective in Political Science;
Six semester hours elective in Political Science and/or cognate areas such as computer science, statistics, economics, sociology, social psychology, as approved by the adviser.

COURSES

(Code 44)

Note: When course numbers have been changed, the former numbers are placed in parentheses for reference.
†may be used toward the General Education requirement.

44.101 (212) ELEMENTS OF POLITICAL SCIENCE † . . 3 sem. hrs.

An introduction to the nature, scope, approaches, and methodology of political science by means of an overview of political and governmental institutions, processes, theories and problems.

44.161 (211) UNITED STATES GOVERNMENT † . . . . . 3 sem. hrs.

An introduction to government and politics in the United States emphasizing constitutional development, political decision-making institutions and processes, and contemporary problems such as dissent, conflict, civil rights, and foreign policy.

44.181 CONTEMPORARY ISSUES IN WORLD POLITICS † . . . . . 3 sem. hrs.

An introduction to international politics through an examination of such critical problems as war and peace, East-West relations, nuclear disarmament, nation-building, and revolution.

44.322 POLITICAL VIOLENCE . . . . . 3 sem. hrs.

A survey of individual, group, and mass political violence, concentrating on causes and manifestations. Positive and negative effectiveness of political violence with the object of placing the phenomena in meaningful historical and contemporary contexts.

44.326 (315) PARTIES, GROUPS AND PUBLIC OPINION . . . . . 3 sem. hrs.

The development of political parties in the United States; elections, voter behavior, and political participation; the role of interest groups; political propaganda.

44.336 (352) PUBLIC ADMINISTRATION THEORY . . . . . 3 sem. hrs.

Administrative and organizational theory with an emphasis on structural-functional analysis; bureaucratic behavior; current developments.

44.351 (310) STATE GOVERNMENT AND POLITICS . . . 3 sem. hrs.

U.S. federalism; state constitutions; the organization and operation of state legislatures, executives, and judiciaries; party and group politics at the state level; current problems.

44.356 ENVIRONMENT AND POLITICS . . . . . 3 sem. hrs.

An analysis of the political dimensions of contemporary environmental problems and policies and the search for new policies. Special emphasis on river basin planning and management.

44.363 THE U.S.S.R. POLITICAL SYSTEM . . . . . 3 sem. hrs.

The governmental process in the U.S.S.R.; the role of the Communist Party; the evolving ideology from Marx to the present; Soviet bloc politics.

44.366 (323) POLITICAL SYSTEMS—EUROPE † . . . . . 3 sem. hrs.

Politics and government in selected states including Great Britain, France, West Germany, and the Soviet Union; principles of comparative analysis.

44.368 (424) POLITICAL SYSTEMS—LATIN AMERICA † . . . . . 3 sem. hrs.

Constitutional and institutional structures; forces of stability and change including the military and the church; social and economic problems.

44.371 (425) POLITCAL SYSTEMS—AFRICA † . . . . . 3 sem. hrs.

Problems of newly independent states; the struggle for independence and attempts to create national unity in the face of traditional tribalism; economic and political development.

44.373 (426) POLITICAL SYSTEMS—ASIA † . . . . . 3 sem. hrs.

Politics and government in selected states with an emphasis on the forces which shape domestic and foreign policies and processes.

44.383 (324) INTERNATIONAL RELATIONS . . . . . 3 sem. hrs.

Sources of international conflict and cooperation; power politics in the international arena; problems of collective security and the settlement of disputes.

44.403 POLITICS AND THE ARTS . . . . . 3 sem. hrs.

A survey of painting, music, films, poetry and novels, with emphasis on novels, to show the relationships between these media and political concepts, philosophy and problems.

44.405 (433) THE DEVELOPMENT OF POLITICAL THOUGHT . . . . . 3 sem. hrs.

Selected political theorists from Plato to Nietzsche are compared with contemporary American political theorists in an attempt to build bridges

between traditional and contemporary theories and theorists. Included are: Plato and Strauss, Thucydides and Max Weber, Aristotle and Lipset, Augustine, and Morgenthau, Machiavelli and Neustadt, Rousseau and Dewey, Aquinas and Maritain, Hobbes and Riker, Burke and Lippmann, Marx and C. Wright Mills, and John Stuart Mill and Christian Bay.

44.409 (532) AMERICAN POLITICAL THOUGHT . . . . . 3 sem. hrs.

An analysis of the relationship of American political thought to contemporary political science by using traditional materials in a historical, chronological way but reworking them to show their relation and relevance to actions and institutions. Included are the main ideas of the leading political thinkers in America from the Colonial period to the present.

44.418 COMPUTER APPLICATIONS IN POLITICAL SCIENCE . . . . . 3 sem. hrs.

An introduction to the principal computer languages used in political science and the social sciences (Primarily FORTRAN) and the application of computers to political science research and problem solving.

44.429 (317) BLACK POLITICS . . . . . 3 sem. hrs.

An analysis of the role of Blacks in American politics, the Black Power movement, civil rights, and racial conflict.

44.437 PUBLIC ADMINISTRATION APPLICATIONS . . . . 3 sem. hrs.

An analysis of the methods and techniques in the application of administrative and organizational theory to the operations of governmental bureaucracies. Topics covered include: Planning-Program Budgeting Systems (PPBS), Program Evaluation Review Technique (PERT), and Operations Research (OR).

44.446 (451) CONSTITUTIONAL LAW . . . . . 3 sem. hrs.

An analysis of the evolution, structure and function of the Supreme Court, concentrating on a case study approach of the Court's interpretations of the commerce and taxing powers, federal-state relationships and civil rights.

44.448 (518) THE JUDICIAL PROCESS . . . . . 3 sem. hrs.

Judicial policy making is studied through systems theory, group theory, and judicial attitude and behavior.

44.453 (311) URBAN GOVERNMENT AND POLITICS . . . 3 sem. hrs.

An analysis of the structure and function of city governments, decision-making in urban politics, groups and group conflict, metropolitics, the megalopolis, and contemporary problems of the American city.

44.458 (513) U.S. FOREIGN POLICY . . . . . 3 sem. hrs.

An analysis of the substance, methods, and purposes of U.S. foreign policy including the determinants of our foreign policy, policy making machinery, the implementation of our foreign policy, and contemporary foreign policy problems.

44.487 (525) INTERNATIONAL LAW AND ORGANIZATIONS ..... 3 sem. hrs.

The theoretical and practical implications of the legal and organizational efforts to regulate inter-nation relations with emphasis on international law, the United Nations, the International Court of Justice, and regional and functional organizations.

44.490 INDEPENDENT STUDY IN POLITICAL SCIENCE ..... 1-4 sem. hrs.

Designed primarily for individualized reading, research, and reporting under conditions of minimal supervison. Projects must have departmenal approval and be under way by the end of the first week of a term.

44.491 READINGS IN GOVERNMENT AND POLITICS .. 3 sem. hrs.

Topics are selected on the basis of close consultations between instructor and student. Designed for either group or individual study.

44.492 (470) SEMINAR IN GOVERNMENT AND POLITICS ..... 3 sem. hrs.

Selected problems in government and politics are studied in an attempt to review and unify theories and methods of political science. Individual research projects are emphasized.

SOCIOLOGY AND ANTHROPOLOGY

Professors Chang Shub Roh (Chairman), Ralph R. Ireland; Associate Professors James H. Huber, Jane J. Plumpis, Robert R. Reeder, Bernard J. Schneck, Robert R. Solenberger; Assistant Professors Joseph A. DeFelice, David E. Greenwald, I. Sue Jackson, Peter G. Roe.

Arts and Sciences major for the B.A. degree:

Sociology 45.211, 460, 462, 466 and 18 semester hours in sociology and/or anthropology chosen by the student in consultation with the adviser in the light of the student's purpose.

Students who wish to concentrate on Social Welfare should include 45.233, 334, and 336 among their elective courses, and seek the recommendations of their advisers for the remaining nine hours of the concentration.

Students wishing concentration in anthropology should note the availability of courses in this area and seek the recommendations of their advisers for the remaining eighteen hours of required courses.

COURSES

SOCIOLOGY

(Code 45)

45.211 PRINCIPLES OF SOCIOLOGY † ..... 3 sem. hrs.

Basic characteristics of group behavior: organization of society and culture; individual and community adjustment in the light of their origin, development, form, and functions.

45.213 CONTEMPORARY SOCIAL PROBLEMS † ..... 3 sem. hrs.

Urgent social problems, and proposals offered for their solution. Topics include social change, personal maladjustment, social disorganization, mobility, families, and aging.

45.233 INTRODUCTION TO SOCIAL WORK AND THE WELFARE SERVICES † ..... 3 sem. hrs.

An examination of modern welfare services, followed by a study of some of the methods by which social workers help to solve problems which range from adoption, and care for the aged, to marital counseling, parole supervision, and community organization.

45.315 RACIAL AND NATIONAL MINORITY GROUPS ..... 3 sem. hrs.

An analysis of relations involving racial, national, and religious minorities in the United States. Emphasis is placed on efforts being made toward possible adjustments in existing relationships.

45.316 URBAN SOCIOLOGY ..... 3 sem. hrs.

Analysis of origin and growth of the city in the U.S. with emphasis on ecological changes and the dynamic patterns of interaction on the contemporary scene. *Prerequisite: 45.211.*

45.318 SOCIAL STRATIFICATION . . . . . 3 sem. hrs.

A review and analysis of some of the major theories and research in social stratification and social mobility as related to ethnic and racial communities, religion, mental disorders, schools, marriage and the family, and socialization.

45.319 RELIGION AND SOCIETY . . . . . 3 sem. hrs.

Analysis of the relationship between religion and social institutions and processes.

45.331 MARRIAGE AND THE FAMILY . . . . . 3 sem. hrs.

Study of the traditional and social institutions of marriage and the family, current and transitional trends of the institution.

45.332 PERSONALITY IN CULTURE AND SOCIETY . . . . 3 sem. hrs.

Examination of cultural influences on the development of personality; analysis of personality differences in various cultures; explanatory hypotheses.

45.334 SOCIAL CASEWORK . . . . . 3 sem. hrs.

Theories and techniques in modern social casework practice.

45.336 CHILD WELFARE . . . . . 3 sem. hrs.

An examination of child welfare services and the institutions which impinge upon the social functioning of children.

45.341 CRIMINOLOGY . . . . . 3 sem. hrs.

Theories of causes of crime, including physical type, differential association, psychiatric, etc. Volume, scope, and trends in crime; police, administration of justice, rehabilitation theory and practice.

45.350 INDUSTRIAL SOCIOLOGY . . . . . 3 sem. hrs.

Work and the milieu of the worker; formal and informal organizations in industry; problems of the worker; industrial morale and teamwork; social adjustment of the worker; and the relation of industry to the community and society.

45.442 JUVENILE DELINQUENCY . . . . . 3 sem. hrs.

Examination of social pressures operative upon children in American society which leads to formation of delinquent personality. Consideration of treatment and prevention, juvenile courts, clinics and correctional institutions.

45.460 BASIC STATISTICAL METHOD . . . . . 3 sem. hrs.

Introductory principles and techniques of statistical analysis with emphasis on application to sociological data; collection and tabulation of data; probability; inference and estimation; measures of dispersion; sampling and correlation.

45.462 SOCIOLOGICAL THEORY . . . . . 3 sem. hrs.

Survey of the development of sociological theory from Comte and Spencer. Comparison of modern schools of thought, including mechanistic, geographic, analytical, functional, and neo-positivistic.
Prerequisite: 45.211.

45.466 RESEARCH METHODS IN THE SOCIAL SCIENCES . . . . . 3 sem. hrs.

Methods and techniques in social science research. Preparation of research projects, questionaires, sampling, interviews, etc. Introduction to methods of analysis and interpretation of data.
Prerequisite: 45.211 and 45.460 or equivalent.

45.467 HUMAN POPULATION STUDY . . . . . 3 sem. hrs.

Distribution of population, its composition, and other characteristics; size, trend, growth and future developments of population; impact of population problems as influenced by processes of fertility, mortality, and migration.

45.468 SOCIAL SERVICE PLANNING . . . . . 3 sem. hrs.

Social context of the theories and practices of social planning, social policy and social services from contemporary and cross-cultural perspectives.

45.470 SENIOR SEMINAR . . . . . 3 sem. hrs.

Individual research projects and reports within selected areas of interest such as the family, criminology, social stratification, and ethnic minorities.
Prerequisite: 18 hours of sociology including 45.460 and 45.466, and permission of the department chairman.

45.497 SOCIOLOGY FIELD WORK EXPERIENCE . . . . . 3 sem. hrs.

Placement in community agencies for supervised field work experience under the guidance of professional sociologists, social workers, and/or other mental health specialists and educators. On-campus seminars provide a framework of psycho-social theory, skills, and professional ethics.
Prerequisite: 45.233 and permission of the instructor.

ANTHROPOLOGY

(Code 46)

46.100 GENERAL ANTHROPOLOGY . . . . . 3 sem. hrs.

The study of the emergence and development of man, the biological basis of human culture and society, and the origins of the social units of fossil man.

46.200 PRINCIPLES OF CULTURAL ANTHROPOLOGY † . . . . . 3 sem. hrs.

Man's bio-cultural development and cultural achievement. The function of elements and configurations of material and non-material culture in meeting human needs. Cultural processes are the role of culture in personality formation.

46.301 FIELD ARCHAEOLOGY I . . . . . 3 sem. hrs.

Field investigation of various aboriginal cultures which have occupied the valley of the North Branch of the Susquehanna River since the glacial age. Emphasis on excavation of sites in this area, preceded by orientation to stratigraphic and recording techniques.

46.302 FIELD ARCHAEOLOGY II ..... 3 sem. hrs.

Intensive study of problems encountered in archaeological research of prehistoric cultures, as revealed by excavation and comparative study of finds.

46.320 CONTEMPORARY WORLD CULTURES ..... 3 sem. hrs.

Comparative analysis of selected non-European societies in contrasting cultural and natural areas. Stresses on the natural and social environment, national character, religion and world view, and literary, artistic, and musical expression.

46.340 PREHISTORY AND ETHNOGRAPHY OF NORTH AMERICA ..... 3 sem. hrs.

Survey of the native cultures of North America in prehistoric and early historic periods. Includes Indians and archaeology of Pennsylvania.

46.410 PRIMITIVE ARTS ..... 3 sem. hrs.

Graphic arts, literature, music, and the dance of ancient and non-European cultures.

46.430 CULTURES AND PEOPLES OF OCEANIA ..... 3 sem. hrs.

Review of the types of aboriginal culture and the distribution of languages and physical types in the Pacific-Island world; archaeological evidence and migration routes from Malaysia to Melanesia and Polynesia.

46.450 PEOPLES AND CULTURES OF SOUTH AMERICA ..... 3 sem. hrs.

A survey introduction to the aboriginal, non-literate cultures of South America, including the ecological background, archaeology, and cultural patterns.

46.480 RELIGION AND MAGIC ..... 3 sem. hrs.

A comparative analysis of the origins, elements, forms and symbolism of religious beliefs and behavior; the role of religion in society with particular reference to nonliterate societies. Anthropological theories and methods of religion, both historical and contemporary.

46.490 SOCIALIZATION OF THE CHILD IN PRIMITIVE SOCIETY ..... 3 sem. hrs.

Life experience and adjustment of the individual through infancy, middle childhood and youth. Contrasting methods of introducing children to adult economic, social and religious activities.

PSYCHOLOGY

Professor Martin A. Satz; Associate Professors Donald R. Bashore, Donald A. Camplese, Victor X. Fongemie (Chairman), Michael W. Gaynor, Robert B. Hessert, J. Calvin Walker; Assistant Professors John S. Baird, Steven L. Cohen, Michael M. Levine, Richard L. Larcom, Constance J. Schick.

Arts and Sciences major for B.A. degree:

Psychology 48.101, 260, and 261 plus 21 semester hours elective in psychology with one course in each of six categories, defined by the department, for a minimum of 31 hours. 48.271 will not count toward an Arts and Science major in psychology.

Note: Where course numbers have been changed, the previous numbers are placed in parentheses for reference.

COURSES

(Code 48)

48.101 GENERAL PSYCHOLOGY † . . . . . 3 sem. hrs.

Psychology is viewed as a system of scientific inquiry into the nature and behavior of man. Major concepts, principles and processes concerned with man's functioning as an individual and as a social being.

48.102 ADVANCED GENERAL PSYCHOLOGY † . . . . . 3 sem. hrs.

More intensive and detailed understanding of psychological processes than in 48.101.
Prerequisite: 48.101.

48.211 DEVELOPMENTAL PSYCHOLOGY † . . . . . 3 sem. hrs.

A study of normal development from the prenatal period through adolescence and of the interrelationships among various aspects of development-biological, cognitive, personality, social - with emphasis on social-personal factors.
Prerequisite: 48.101.

48.231 (331) PSYCHOLOGY OF ADJUSTMENT † . . . . . 3 sem. hrs.

Personal and social meaning of adjustment. An operational approach to mental health is taken, including such concepts as anxiety, frustration, conflict, aggression and defense.
Prerequisite: 48.101.

48.260 BASIC STATISTICS † . . . . . 3 sem. hrs.

An introduction to fundamental statistical concepts and principles, providing a foundation for research methodology for students who need not be mathematically inclined. Computation, interpretation, and application of commonly used descriptive, correlation, and inferential statistical procedures for analyzing data. 2 hrs. lecture, 2 hrs. laboratory/week.

48.261 EXPERIMENTAL PSYCHOLOGY . . . . . 3 sem. hrs.

Survey of psychology as a laboratory science; concepts, methodology, techniques and areas of study. Laboratory period provides practical experience, 3 class hours, 3 laboratory hours.
Prerequisite: 48.101 and 48.260 completed or concurrent.

48.271 EDUCATIONAL PSYCHOLOGY . . . . . 3 sem. hrs.

Principles of psychology as applied to the classroom. Emphasis is upon learning processes as affected by environmental, experiential and developmental factors.
Prerequisite: 48.101.

48.321 PSYCHOLOGICAL TESTS AND MEASUREMENTS . . . . . 3 sem. hrs.

An introduction to the logic of psychological measurement, emphasizing the applied and practical aspects of psychological testing through classroom exercises in administering, scoring, and interpreting test results. Provides student with background for test evaluation.
Prerequisite: 48.101, 48.260.

48.335 (431) ABNORMAL PSYCHOLOGY . . . . . 3 sem. hrs.

A survey of classification, psychodynamics, treatment and prognosis of mental disorders. Emphasis is placed on the characteristics of these disorders, their etiology, and various approaches to treatment and remediation.
Prerequisite: 48.101.

48.351 SOCIAL PSYCHOLOGY . . . . . 3 sem. hrs.

The study of interpersonal behavior - how individuals affect and are affected by others - with emphasis on affiliation, inter-personal perception and attraction, group behavior and conformity, attitude change and compliance.
Prerequisite: 48.101.

48.353 (452) INDUSTRIAL PSYCHOLOGY . . . . . 3 sem. hrs.

Services of the psychologist to business and industry. Includes modes of job analysis, motion studies, employee selection, promotion and termination, training, rating, and research.
Prerequisite: 48.101.

48.356 (456) PSYCHOLOGY OF MOTIVATION . . . . . 3 sem. hrs.

A survey of the fundamental determinants of human and animal activity. Theories, research methodologies, and experimental evidence related to the activation and direction of behavior.
Prerequisite: 48.101, 48.260, 48.261 or consent of instructor.

48.375 PSYCHOLOGY OF LEARNING . . . . . 3 sem. hrs.

Theoretical and experimental bases of learning in animal and human behavior. Situational and drive factors affecting learning, stimulus generalization and discrimination, retention, and forgetting.
Prerequisite: 48.101, 48.260 and 48.261 or consent of instructor.

48.380 PHYSIOLOGICAL PSYCHOLOGY . . . . . 3 sem. hrs.

A study of the relationship between psychological processes and physiological activity. Neurological and biochemical bases of behavior with emphasis upon the synergistic functions of the nervous system, sense organs, and glandular system.
Prerequisite: 48.101, 48.260, 48.261 or consent of instructor.

48.401 FOUNDATIONS OF CONTEMPORARY PSYCHOLOGY . . . . . 3 sem. hrs.

A study of the historical development of modern psychology. Compares present day models of behavior within a historical framework.
Prerequisite: 48.101 and consent of instructor. (Offered fall semester only.)

48.406 PSYCHOLOGY SEMINAR . . . . . 2 or 3 sem. hrs.

An advanced consideration of significant topics in psychology. Reports and discussions of current research.
Prerequisite: 21 hrs. in psychology and consent of instructor.

48.416 PROBLEMS OF ADOLESCENCE . . . . . 3 sem. hrs.

Advanced study of personal and social problems confronting adolescents as they emerge from childhood and strive for adulthood.
Prerequisite: 48.101 and 48.211.

48.436 THEORIES OF PERSONALITY . . . . . 3 sem. hrs.

Critical study of theories explaining development, structure and organization of personality. Considers personality from psychoanalytic, social, individual, self and learning points of view.
Prerequisite: 48.101 and consent of instructor.

48.451 LABORATORY TRAINING IN GROUP PROCESSES . . . . . 3 sem. hrs.

An examination of theories of interpersonal interaction, the development of self-concepts, and the formation and development of group cultures. Class size limited to 20 students.
Prerequisite: Consent of instructor in 48.101 and 48.351, or six semester hours in Sociology.

48.454 PSYCHOLOGICAL STUDY OF SOCIAL ISSUES . . 3 sem. hrs.

Selected social issues (e.g. conflict, social change) studied in terms of intra-individual processes and of interactive processes between the individual and society. Emphasis on research findings and theory as to possible alternatives or solutions to current practices.
Prerequisite: 48.101, 351, and 436 or consent of instructor; 48.261 recommended.

48.462 ADVANCED EXPERIMENTAL PSYCHOLOGY . . . 3 sem. hrs.

Literature search, experimental design, modern methodology, instrumentation, and data analysis for in-depth study of psychological variables culminating in individual research.
Prerequisite: 48.101, 260, 261 and consent of instructor.

48.464 ADVANCED EXPERIMENTAL DESIGN ..... 3 sem. hrs.

An advanced consideration of the plannng, conduct, and evaluation of research in the behavioral and biological sciences, employing parametric and non parametric statistics. Emphasis on inferential statistics, design, analysis, and interpretation.
Prerequisite: 48.101, 260, 261 or consent of instructor.

48.466 RESEARCH PROJECTS IN PSYCHOLOGY ... 1-3 sem. hrs.

Individual study under close faculty supervision.
Prerequisite:Consent of instructor and department chairman.

48.471 (273) PSYCHOLOGY OF PERCEPTION ..... 3 sem. hrs.

A systematic examination of sensory and perceptual processes including perceptual development, adaptation, and social perception. Emphasis on experimental methods, results, and theoretical interpretations of perceptual phenomena.
Prerequisite: 48.101, 260, 261 and consent of instructor.

48.497 (499) PRACTICUM IN PSYCHOLOGY ..... 1-3 sem. hrs.

An introduction to psychology as a profession, with opportunity provided for study, observation, and practice in the setting of a community agency. May be repeated one time for credit.
Prerequisite: 48.101 and consent of instructor.

GROUP III: NATURAL SCIENCES AND MATHEMATICS

BIOLOGY

Professors James E. Cole, Phillip A. Farber, Michael Herbert, Craig L. Himes, (Chairman), Jerome J. Klenner, Julius R. Kroschewsky, Thomas R. Manley, Donald D. Rabb, Joseph P. Vaughan; Associate Professors George J. Gellos, Louis V. Mingrone, Stanley A. Rhodes, Robert G. Sagar; Assistant Professor John R. Fletcher.

Arts and Sciences Major for the B.S. degree:

Biology 50.210, 220, 332, 351, 380; 50.331 or 361 or 362; 50.371 or 372; Chemistry 52.101 and/or 102; 113, 231, 232, and two additional chemistry courses (7 or 8 sem. hrs.) to be selected from 52.212, 222, 311, 321, 421, 422, 433; Physics 54.111, 112; Mathematics 53.141 and 123, or 121 and 122; Foreign Language: 6 to 8 sem. hrs. in German, French, Russian or Spanish or by passing a proficiency examination.

Arts and Sciences Major for the B.A. degree:

Biology 50.210, 220, 332, 380, 351; 50.371 or 372; Chemistry 52.101 and/or 102; 113, 231, 232; Mathematics 4 sem. hrs. to be selected from 53.123, 141, 171; Foreign Language: 6 to 8 sem. hrs. in German, French, Russian or Spanish or by passing a proficiency examination.

COURSES

(Code 50)

Courses marked † may be applied toward General Education.

50.101 (103) GENERAL BIOLOGY I† . . . . . 3 sem. hrs.

Major concepts and principles of biology relating to man and his environment. Lecture and discussion. Not for biology majors.

50.102 (104) GENERAL BIOLOGY II † . . . . . 3 sem. hrs.

The plant and animal kingdom is studied from the ecological evolutionary aspect equating man's influence and association. Not for biology majors. *Prerequisite: 50.101 or consent of instructor.*

50.111 GENERAL BIOLOGY I: LABORATORY † . . . . . 1 sem. hr.

An optional audio-tutorial laboratory program correlated with 50.101. 2 hrs. laboratory/week.
Prerequisite: 50.101 (may be taken with or following 50.101).

50.112 GENERAL BIOLOGY II: LABORATORY † . . . . . 1 sem. hr.

An optional laboratory program correlated with 50.102. Includes discussion of the lectures. *Prerequisite: 50.102 (may be taken concurrently).*

50.210 GENERAL ZOOLOGY † ..... 4 sem. hrs.

Fundamental principles of zoology as applied to representative groups of invertebrate and vertebrate animals. Laboratory work emphasizes the development, anatomy, physiology and behavior of representative animals. 3 hrs. lecture, 3 hrs. laboratory/week.

50.220 GENERAL BOTANY † ..... 4 sem. hrs.

Fundamental principles of taxonomy, anatomy, morphology, physiology, and genetics as applied to the plant kingdom. 3 hrs. lecture, 3 hrs. laboratory/week.

50.230 HUMAN SEXUALITY ..... 3 sem. hrs.

Anthropological, biological, physiological and sociological aspects of sex. Discussion of sexual competence and the role of sex in society. Prerequisite: 8 hours of Biology or consent of the instructor.

50.311 (210) INVERTEBRATE ZOOLOGY † ..... 3 sem. hrs.

The principal phyla of invertebrate animals are studied in relation to their anatomy, classification, and their role in the ecosystems in which they participate. 2 hrs. lecture, 3 hrs. laboratory/week.
Prerequisite: 50.210.

50.312 (211) VERTEBRATE ZOOLOGY † ..... 3 sem. hrs.

The biology of the vertebrate animal, emphasizing morphology, physiology, embryology, and behavior. Evolutionary and ecological aspects of each class. Laboratory work with living and preserved specimens to familiarize the student with representative individuals of the major classes of this group. 3 hrs. lecture, 2 hrs. laboratory/week.
Prerequisite: 50.210.

50.321 COMPARATIVE BIOLOGY OF NON-VASCULAR PLANTS ..... 3 sem. hrs.

Phylogenetic study of major non-vascular plants with emphasis on development, structure, reproduction and selected ecological aspects. 2 hr. lecture, 3 hrs. laboratory/week.
Prerequisite: 50.220.

50.322 COMPARATIVE BIOLOGY OF VASCULAR PLANTS † ..... 3 sem. hrs.

Structure, function and biosynthesis of the major chemical constituents found in vascular plants. 2 hrs. lecture, 3 hrs. laboratory/week.
Prerequisite: 50.220.

50.331 (371) EMBRYOLOGY † ..... 3 sem. hrs.

Patterns, processes, and principles of animal development. Laboratory studies comprise maturation and organization of germ cells, and developmental processes of a number of animal types, including several types of living embryos.
Prerequisite: 50.101 or 210 or consent of the instructor.

50.332 (341) GENETICS † ..... **3 sem. hrs.**

Mechanisms of heredity in animals and plants; Mendelian inheritance, probability, linkage, crossing over, chromosomal modificiations, nucleic acids and gene action. 3 hrs. lecture, 2 hrs. laboratory/week.
Prerequisite: 50.210 or 50.101 and 102.

50.333 HUMAN GENETICS † ..... **3 sem. hrs.**

Principles of human genetics and their application to problems in biology, medicine, psychology, special education, anthropology, and sociology. Open to majors and non-majors. 3 hrs. lecture/week.
Prerequisite: 50.101 or 102 or consent of instructor.

50.341 (361) MICROBIOLOGY † ..... **3 sem. hrs.**

Cytology, nutrition, cultivation, and metabolism of bacteria, viruses and fungi; their distribution in nature and their beneficial and harmful activities. 1 hr. lecture, 4 hrs. laboratory/week.
Prerequisite: 6 hours of laboratory science.

50.342 MEDICAL MICROBIOLOGY † ..... **3 sem. hrs.**

An introductory course for students in the Medical Technology program. Procedures used for specimen collections, cultivation, isolation, and identification of clinically significant pathogenic micro-organisms.
Prerequisite: 50.210.

50.351 (331) GENERAL ECOLOGY ..... **3 sem. hrs.**

Principles and concepts pertaining to energy flow; limiting factors, habitat studies, succession patterns, and population studies at the species, interspecies, and community level.
Prerequisite: 50.210 and 220 or consent of instructor.

50.352 (417) FIELD ZOOLOGY † ..... **3 sem. hrs.**

Common vertebrates (excluding birds) of North America, with emphasis on the observation, collection, and recognition of local fauna.
Prerequisite: 50.210 or consent of instructor.

50.353 (432) FRESH WATER BIOLOGY † ..... **3 sem. hrs.**

The biology of streams, lakes and ponds; their relationship to health and welfare. 2 hrs. lecture, 3 hrs. laboratory/week.

50.354 (453) SOCIAL IMPLICATIONS OF BIOLOGY † .. **3 sem. hrs.**

Biology as related to contemporary problems: population, food, environments, etc. The course is directed toward concern with the state of biology in modern times.

50.361 (482) COMPARATIVE VERTEBRATE ANATOMY † ..... **3 sem. hrs.**

A comparative study of the chordates, emphasizing the vertebrate classes, particularly as to structure, morphogenesis, functional adaptations and evolutionary trends. In the laboratory, emphasis is placed on the lamprey, shark, cat,

sheep heart and brain, and living frog larvae, rats, and rabbits. 2 hrs. lecture, 3 hrs. laboratory/week.
Prerequisite: 50.101 or 210 or consent of instructor.

50.362 PLANT ANATOMY † ..... **3 sem. hrs.**

Recent concepts of plant anatomy and historical consideration of classical researches. Structure, function, growth, and morphogenesis of the vascular plants. Composition and growth of meristems and the phenomena of subsequent tissue differentiation to increase appreciation of developmental events. The study of anatomical organization is described by developmental and comparative methods in order to explain important cell, tissue, and organ relationships. 2 hrs. lecture, 3 hrs. laboratory/week.
Prerequisite: 50.220.

50.363 (422) PLANT TAXONOMY † ..... **3 sem. hrs.**

Identification and classification of seed plants represented in local flora. 2 hrs. lecture, 3 hrs. laboratory/week.
Prerequisite: 50.220, or 102 or consent of the instructor.

50.364 (471) VERTEBRATE HISTOLOGY † ..... **3 sem. hrs.**

A study of vertebrate tissues from various body systems. Laboratory studies include the use of prepared slides, color photomicrographs, and basic histological techniques. 2 hrs. lecture, 3 hrs. laboratory/week.
Prerequisite: 50.210. Recommended prerequisite: 50.361.

50.365 HISTOLOGICAL AND HISTO-CHEMICAL TECHNIQUES ..... **3 sem. hrs.**

A laboratory course designed to provide theory and practice in the use of histological and histochemical techniques. Fixation, preparation, embedding, sectioning and staining of various animal tissues. 1 hr. lecture/4 hrs. laboratory/week.
Prerequisite: 50.364, and Chemistry 52.211 or 231 or consent of instructor.

50.371 (381) VERTEBRATE PHYSIOLOGY† ..... **3 sem. hrs.**

The functions of tissues, organs, and systems and their chemical integration. Emphasis on mammalian circulation, respiration, digestion, metabolism, renal function, reproduction, and endocrines. 2 hrs. lecture, 3 hrs. laboratory/week.
Prerequisite: 50.210 or consent of instructor.

50.372 (420) PLANT PHYSIOLOGY† ..... **3 sem. hrs.**

An introduction to plant function including discussions of water relations, carbohydrate metabolism and translocation, photosynthesis, mineral nutrition, plant growth hormones, and growth and development. 2 hrs. lecture, 3 hrs. laboratory/week.
Prerequisite: 50.220; Chem. 52.211 or 231; or consent of instructor.

50.380 (490) SENIOR SEMINAR ..... **1 sem. hr.**

An informal discussion course for consideration of important topics in modern biology. One hour per week.

50.390 (492) RESEARCH TOPICS IN BIOLOGY . . . 1 to 6 sem. hrs.

Familiarization and application of techniques necessary to prepare an in-depth study of some phase of biology.
Prerequisite: Consent of instructor; 12 hrs. in Biology.

50.411 (452) RADIATION BIOLOGY . . . . . 3 sem. hrs.

Effects of radiation on living organisms; nuclear structure; fundamental properties of radiation; physical, chemical, and genetic effects on plants and animals from cells to whole organisms; application of radiochemicals in biological studies.
Prerequisite: 50.231, Chem. 52.232, Math 53.141; or consent of instructor.

50.431 (441) EVOLUTION † . . . . . 3 sem. hrs.

A study of the major problems of the theory of evolution and contributions toward their solutions made by genetics, paleontology, systematics, and ecology. 3 hrs. lecture/week.
Prerequisite: 50.332.

50.432, 433, 434 STUDIES IN SPECIATION † . . . . . 3 sem. hrs.

A study of plants and animals in areas where biotas merge giving rise to interspecific hybridization (sequelae). A field course conducted in areas designated. Areas of study determined by students needs..

432 - Studies in Florida-Georgia Suture Zone and Sub-tropical biotas of Florida.
433 - Central Texas, Southern Rocky Mountain Sonoran, Suture Zones, Mountains of New Mexico and Arizona.
434 - Northern Rocky Mountain and Pacific Rocky Mountain Suture Zone.

Prerequisite: 50.431 or permission of the instructor. Students may not take more than two of the three areas of study for credit.

50.441 (443) CYTOLOGY AND CYTOGENETICS . . . . . 3 sem. hrs.

Structure and function of cytoplasmic and nuclear organelles of cells. Laboratory studies include techniques for cell, chromosome, and tissue preparation. 2 hrs. lecture, 2 hrs. laboratory/week.
Prerequisite: 50.332 or 333; Chem. 52.211 or 231 or consent of instructor.

50.454 ETHOLOGY † . . . . . 3 sem. hrs.

Description and classification of behavior (animal), its evolution and biological function. Mechanisms underlying behavior, especially species-typical behavior, are emphasized. 3 hrs. lecture, 2 hrs. laboratory/week.
Prerequisite: 50.210 and 371 or consent of instructor.

50.455 ENVIRONMENTAL MICROBIOLOGY . . . . . 3 sem. hrs.

Practical application of knowledge of micro-organisms; their effects on our environment; methods of control; sanitation regulations and testing procedures. Field trips taken when practical.
Prerequisite: 50.341 or consent of instructor.

50.459 ORNITHOLOGY † . . . . . 3 sem. hrs.

Biology of birds and the study of bird identification in the field by song and sight. Study of birds of this region in relation to migration, time of arrival and

nesting. 2 hrs. lecture, 3 hrs. laboratory/week.
Prerequisite: 50.210 or 102.

50.463 BIOLOGICAL PHOTOGRAPHIC TECHNIQUES . . 3 sem. hrs.

Theory and practice of photography as applied to biology, including negative and print making, gross specimen photography, copying, transparencies, film strips, autoradiography, nature work in close-ups, photomicrography, thesis illustrations, and other special techniques. 2 hrs. lecture, 3 hrs. laboratory/ week.

50.472 CELL PHYSIOLOGY † . . . . . 3 sem. hrs.

Application of physical and chemical principles to cellular processes; bio chemistry of cellular constituents; physiochemical environment; bioenergetics; intermediate metabolism.
Prerequisite: 12 hours of Biology and Chemistry 52.211 or 52.231; or consent of instructor.

EARTH SCIENCE

Faculty: See Geography.

Arts and Sciences major for the B.A. degree:

Earth Science 51.101, 102, 253, 255, 259; plus 3 additional courses elected from 51.105, 361, 362, 365, 369, 468, 475, and approved courses offered by the Marine Science Consortium; Mathematics 53.112, plus one of the following: 53.113, 53.121, and 53.123; Chemistry 52.102, 113; Physics 54.111, 112.

A maximum of 9 credits from the Marine Science Consortium may be applied.

See Marine Science (55) for additional electives in Earth Science.

COURSES

(Code 51)

Note: When course numbers have been changed, the former numbers are placed in parentheses for reference.

Courses marked † may be applied toward the General Education requirement. Other Earth Science courses may also be applied provided one of the marked courses has been taken.

51.101 (357) PHYSICAL GEOLOGY † ..... **4 sem. hrs.**

A study of the landscape in relation to the structure of the earth's crust; agents at work to change landforms; classification and interpretation of rocks. 3 hours class and 2 hours laboratory/week.

51.102 (361) HISTORICAL GEOLOGY † ..... **4 sem. hrs.**

Earth history as interpreted from rock and fossil evidence, with emphasis on continuous evolution of the earth and life on it. 3 hours class and 2 hours laboratory/week.

51.105 ENVIRONMENTAL GEOLOGY † ..... **3 sem. hrs.**

Application of geologic principles to the environment. Emphasis is on earth processes influencing man, engineering properties of rocks and soils, and the environmental implication of earth resources.

51.253 (453) ASTRONOMY ..... **3 sem. hrs.**

Physical characteristics and motions of the solar system; interesting phenomena of our galactic system and those of extragalactic space; study of constellations.

51.255 (355) METEROLOGY ..... **3 sem. hrs.**

A study of the atmosphere and of laws and underlying principles of atmospheric changes. 2 hours class and 2 hours laboratory/week. Students having taken 41.125 may not enroll in or receive credit for 51.255.

51.259 (359) OCEANOGRAPHY ..... 3 sem. hrs.

Introduction to the geologic, chemical, and physical aspects of the ocean basins. Emphasis is on ocean basin structure, topographic features, wave motion, current circulation, and methods of investigation. One weekend field trip is required.

51.361 MINERALOGY ..... 4 sem. hrs.

Origin, occurence, and identifying characteristics of common minerals. Both megascopic and microscopic techniques are stressed. 3 hours class and 2 hours laboratory/week.

51.362 PETROLOGY ..... 4 sem. hrs.

Megascopic and petrographic analysis and identification of rocks with emphasis on field occurences and association. 3 hours class and 2 hours laboratory/week.
Prerequisite: 51.361.

51.365 GEOMORPHOLOGY ..... 4 sem. hrs.

Geomorphic processes and land forms with particular emphasis on their relationship to underlying rock lithologies and structures. 3 hours class and 2 hours laboratory/week. Students having taken 41.253 may not enroll in or receive credit for 51.365.

51.369 STRUCTURAL GEOLOGY ..... 4 sem. hrs.

An analysis of rock deformation based upon the principles of rock mechanics and the utilization of data from field investigations. 3 hours class and 2 hours laboratory/week.

51.451 FIELD TECHNIQUES IN EARTH SCIENCE ..... 6 sem. hrs.

Intensive field and laboratory training in the use of equipment and techniques in the areas of geology, hydrology, and cartography. Field trips are integral and vital segments of the course.
Prerequisite: 15 hours in Earth Science coureses or consent of instructor.

51.468 (368) STRATIGRAPHY AND SEDIMENTATION ..... 4 sem. hrs.

Processes and agents which erode, transport, and deposit sediments, and the geologic interpretation of the resulting rocks. 3 hours class and 2 hours laboratory/week.

51.475 SPECIAL PROBLEMS IN EARTH SCIENCE ..... 3 sem. hrs.

Independent directed research oriented to studies of selected problems in earth science.
Prerequisite: 21 semester hours in Earth Science.

CHEMISTRY

Professors Barrett W. Benson (Chairman), Wilbert A. Taebel, Norman E. White; Associate Professors Clyde S. Noble, Roy D. Pointer, Rex E. Selk; Assistant Professors Margaret M. L. Chu, Lawrence L. Mack.

Arts and Sciences major for the B.S. degree:
Chemistry 52.102, 113, 122, 231, 232, 311, 312, 322, 421 or 441, 422, 490, 492; Mathematics 53.121, 122, 171 or 172, 221; Physics 54.211, 212, 310; reading knowledge of Scientific German or Russian.

Arts and Sciences major for the B.A. degree:
Chemistry 52.102, 113, 122, 231, 232, 311, 312, 322, 490; Mathematics 53.121, 122, 221; Physics 54.211, 212.

(Note: Requirements for the major for the B.S. in Ed. degree are found in the section on Secondary Education, School of Professional Studies.)

COURSES

(Code 52)

Courses marked † may be applied toward General Education.

52.101 INTRODUCTORY CHEMISTRY † . . . . . 3 sem. hrs.

An introduction to fundamental concepts and principles of chemistry, including aspects of environmental chemistry. No previous chemistry background assumed. 3 hours class/week.

52.102 COLLEGE CHEMISTRY † . . . . . 4 sem. hrs.

Basic principles of chemistry including descriptive and theoretical topics of general chemistry as recommended by the American Chemical Society. Recommended for students with a strong high school science background and an above average math SAT score. 4 hours class/week.
Prerequisite: 52.101 or satisfactory performance on a department administered, standardized exam and written permission of the Chemistry Department.

52.113 CHEMISTRY LABORATORY † . . . . . 2 sem. hrs.

An introduction to theory and practice of fundamental chemistry laboratory techniques, including qualitative analysis. 4 hours/week 1 class, 3 laboratory.
Prerequisite: Either 52.101 or 102, concurrent or completed.

52.122 QUANTITATIVE ANALYTICAL CHEMISTRY † . . . 4 sem. hrs.

Fundamental principles of quantitative chemical analysis. Utilizes classical and modern instrumental techniques. Laboratory skills and calculations of quantitative analysis are stressed. 7 hours/week; 3 class, 4 laboratory.
Prerequisite: 52.102, 113.

52.211 INTRODUCTORY ORGANIC CHEMISTRY † . . . . . 4 sem. hrs.

A survey of functional group organic chemistry with emphasis on those fundamentals of structure, stereochemistry, and reaction mechanisms which

are desirable for an understanding of the chemistry of biomolecules. Students who contemplate further work in chemistry should take the 52.231-232 sequence. Not open to Chemistry majors. 6 hours/week: 3 class, 3 laboratory. *Prerequisite: 52.101, 113.*

52.231 ORGANIC CHEMISTRY I † ..... 4 sem. hrs.

Fundamental principles of organic chemistry. Molecular structure, stereochemistry and reactions of hydrocarbons and their derivatives. Reaction mechanisms and syntheses emphasized. 7 hours/week: 3 class, 4 laboratory. *Prerequisite: 52.112.*

52.232 ORGANIC CHEMISTRY II † ..... 4 sem. hrs.

A continuation of 52.231, with emphasis on reactions of common functional groups, synthesis and mechanism. Modern spectroscopic methods and the interpretation of spectra introduced. 7 hours/week: 3 class, 4 laboratory. *Prerequisite: 52.231.*

52.233 INTRODUCTORY BIO-ORGANIC CHEMISTRY † ..... 4 sem. hrs.

The organic chemistry of biomolecules with emphasis on the structure and chemical transformations of proteins, carbohydrates, lipids, and nuclei acids. 6 hours/week; 3 class, 3 laboratory.
Prerequisite: 52.211 or 52.232.

52.311 PHYSICAL CHEMISTRY I ..... 4 sem. hrs.

Study of chemical thermodynamics with an introduction to quantum and statistical mechanics kinetic-molecular theory of gases; quantized molecular energies; the laws of thermodynamics; Gibbs free energy and equilibriuim. 7 hours/week; 3 class, 4 laboratory.
Prerequisite: 52.102, 113; 54.211 or 111.

52.312 PHYSICAL CHEMISTRY II ..... 4 sem. hrs.

Continuation of 52.311; Schroedinger equation; molecular orbital theory; spectroscopy; rates and mechanisms of reactions; electrochemistry. 7 hours/week; 3 class, 4 laboratory.
Prerequisite: 52.311; 54.212 or 112; 53.221 recommended.

52.322 INSTRUMENTAL ANALYTICAL CHEMISTRY ... 4 sem. hrs.

Theory and laboratory applications of some of the instrumental methods of analysis. Topics include chromatography, spectrophotometry, polarography, electro-analysis, nuclear magnetic resonance, and others. A laboratory-centered course. 7 hours/week: 3 class, 4 laboratory.
Prerequisite: 52.311.

52.413 PHYSICAL CHEMISTRY III ..... 3 sem. hrs.

Further topics in physical chemistry chosen according to student interest. Possible topics of study are: quantum chemistry; physical biochemistry; statistical thermodynamics; macromolecular chemistry. 3 hours class/week.
Prerequisite: 52.312.

52.421 ADVANCED INORGANIC CHEMISTRY . . . . . 3 sem. hrs.

Selected theories and principles of inorganic chemistry are studied and applied to a systematic analysis of the periodic relationships and properties of the elements. 3 hours class/week.
Prerequisite: 52.312 or concurrent.

52.422 ADVANCED LABORATORY . . . . . 4 sem. hrs.

An integration of laboratory practices associated with qualitative organic analysis and techniques common to inorganic and biochemistry. Topics include separation, synthesis, isolation, purification and structure determination. Interpretation and reliability of experimental results. 8 hours/week; 2 class, 6 laboratory.
Prerequisite: 52.232, 322.

52.433 ADVANCED ORGANIC CHEMISTRY . . . . . 3 sem. hrs.

Advanced theory, stereochemistry and utility of organic reactions. Reactive intermediates emphasized. 3 hours class/week.
Prerequisite: 52.232; 52.312 or concurrent.

52.441 BIOCHEMISTRY . . . . . 3 sem. hrs.

Chemistry of proteins, nucleic acids, lipids, carbohydrates; intermediary metabolism; introduction to enzyme chemistry. 3 hours class/week.
Prerequisites: 52.232, 52.312 or concurrent.

52.490 CHEMISTRY SEMINAR . . . . . 1 sem. hr.

52.491 SPECIAL TOPICS . . . . . 1 to 3 sem. hrs.

May take the form of a directed laboratory or library oriented investigation one one or more topics of mutual interest to student and instructor. *Registration by consent of the instructor.*

52.492 CHEMICAL RESEARCH . . . . . 3 sem. hrs.

Laboratory investigations of selected problems for advanced students. *Registration by consent of the instructor.*

MATHEMATICS

Professor Stephen D. Beck (Chairman); Associate Professors Charles R. Reardin, Charles M. Brennan, Leroy H. Brown, JoAnne S. Growney, Paul G. Hartung, Robert L. Klinedinst, Joseph E. Mueller, Ronald W. Novak, Clinton J. Oxenrider, James C. Pomfret; Assistant Professors Harold J. Bailey, Thomas L. Ohl, June L. Trudnak.

Arts and Sciences Major for B.A. degree:

Mathematics 53.125, 126; 171 or 172; 211, 225, 226, 241; 15 semester hours elective from 53.117, 212, 231, 271, 281, 312, 322, 331, 341, 371, 411, 421, 422, 451, 461, 471, 472, 491, 492. Six to eight semester hours in a discipline to which mathematics is applied, as approved by the advisor.

COURSES

(Code 53)

Note: Courses marked † may be applied toward General Education.
Note: Requirements for the major for the B.S. in Education degree are given in Section 8.2.3.

53.101 FUNDAMENTALS OF MATHEMATICS † ..... **3 sem. hrs.**

An informal investigation of a collection of mathematical concepts designed to promote inductive reasoning and illustrate the role of mathematics in our society.

53.110 BASIC ALGEBRA † ..... **3 sem. hrs.**

A study of fundamental algebraic methods for students whose previous mathematical background is weak. Elementary algebraic relationships, functions, and solution of equations.

53.111 FINITE MATHEMATICS † ..... **3 sem. hrs.**

An introductory development of logic and sets provides the foundation for the study of counting techniques and probability spaces.

53.112 TRIGONOMETRY † ..... **3 sem. hrs.**

The study of natural trigonometric ratios and applications, extended to circular functions.

53.113 PRE-CALCULUS † ..... **3 sem. hrs.**

Elementary algebraic functions and relations; exponential and logarithmic functions; circular functions and inverse functions.

53.117 MATRIX ALGEBRA † ..... **3 sem. hrs.**

Computational aspects of linear algebra for use in problem solving in various non-mathematical subject matters.

53.118 APPLIED MATRIX ALGEBRA † ..... 3 sem. hrs.

Introduction to vectors, matrices, linear equations, and linear programming with applications to the social and biological sciences.
Formerly College Algebra II.

53.122 CALCULUS II † ..... 4 sem. hrs.

Study of the definite integral and application; conic sections; differentiation of elementary transcendental functions; the indefinite integral and techniques of integration. Final offering, Fall, 1974.
Prerequisite: 53.121.

53.123 ESSENTIALS OF CALCULUS † ..... 3 sem. hrs.

Basic computational concepts of elementary calculus, differentiation and integration as used in non-physical science applications. Less rigorous than 125-126. An adequate background in algebra is needed and some trigonometry would be helpful.

53.125 ANALYSIS I † ..... 3 sem. hrs.

Differentiation and integration of functions of a single real variable including algebraic and transcendental functions.

53.126 ANALYSIS II† ..... 3 sem. hrs.

Techniques of integration, infinite series, Taylor's Theorem, differential equations, and an introduction to partial derivatives.
Prerequisite: 53.125.

53.141 INTRODUCTORY STATISTICS † ..... 3 sem. hr.

Reading, interpreting and constructing tables of statistical data; statistical measure; application of basic skills of statistics.
Prerequisite: 53.111.

53.171 INTRODUCTION TO COMPUTER PROGRAMMING † ..... 1 sem. hr.

An introduction to mathematically-oriented computer programming using the Fortran language with examples written and executed on the college computer.

53.172 INTRODUCTION TO BASIC COMPUTER PROGRAMMING † ..... 1 sem. hr.

Interactive computer programming using the Basic language. Communication with the computer via remote terminals.

53.201 THEORY OF ARITHMETIC † ..... 3 sem. hrs.

The language of sets; the four elementary operations through the real number system; elementary theory of numbers.
Prerequisite: For Elementary Education majors only.

53.202 ALGEBRAIC AND GEOMETRIC STRUCTURES † ..... 3 sem. hrs.

Informal geometry, including area and volume. A non-rigorous examination of groups, rings, and fields.
Prerequisite: 53.201.

53.203 FIELD WORK IN MATHEMATICS . . . . . 3 sem. hrs.

Instruments used in the field are the slide rule, angle mirror, clinometer, plane table, transit. (Summer only).

53.211 INTRODUCTION TO MODERN ALGEBRA . . . . . 3 sem. hrs.

An introduction to the language and methods of abstract mathematics. Subjects discussed include sets, relations, functions, groups, rings and fields. *Prerequisite: 53.121 or 53.125.*

53.212 LINEAR ALGEBRA . . . . . 3 sem. hrs.

Study of abstract vector spaces, linear transformations, matrices, determinants, inner product spaces, spectral theory, and elated topics. *Prerequisite: 53.117 and 53.122.*

53.221 INTERMEDIATE CALCULUS . . . . . 4 sem. hrs.

Study of polar coordinates, parametric equations, vectors in the plane and space, improper integrals; partial differentiation; multiple integration; series and sequences. Final offering, Spring, 1975.
Prerequisite: 53.122.

53.225 ANALYSIS II . . . . . 3 sem. hrs.

Vector analysis in R^2 and R^3 with extension to R^n; systems of linear equations, matrix algebra, linear transformations, and Euclidean Space.
Prerequisite: 53.125 - Corequisite 53.126

53.226 ANALYSIS IV . . . . . 3 sem. hrs.

Curves and parametric equations, surfaces, Taylor's Theorem, functions from R^m to R^n and multiple integrals.
Prerequisite: 53.125, 53.225.

53.231 COLLEGE GEOMETRY . . . . . 3 sem. hrs.

Elementary geometry from an advanced standpoint. Incidence in the plane and space, congruence, inequality and similarity concepts. Properties of polygons, circles and spheres.

53.241 PROBABILITY AND STATISTICS † . . . . . 3 sem. hrs.

Descriptive and inferential statistics with emphasis on probabilistic distribution. Practical training in the calculation of various statistical measures obtained in the laboratory.
Prerequisite: 53.121.

53.271 ALGORITHMIC PROCESSES FOR COMPUTERS † . . . . . 3 sem. hrs.

Properties of algorithms; languages used in described algorithms; application of a procedure-oriented language (Fortran) to problem-solving.
Prerequisite: 53.171 or 172, or permission of instructor.

53.281 MATHEMATICAL MODELS WITH APPLICATIONS †.....3 sem. hrs.

A study of the nature of mathematical modelling and of recent applications of mathematics to the biological, social, business and management sciences. Topics include Markov chains, linear programming, game theory, graphy theory, utility, growth processes, and queuing theory. Previous introduction to matrices and probability is helpful. (Fall only)
Prerequisites: 53.121, 53.123, or 53.125.

53.311 ALGEBRA FOR SECONDARY SCHOOL TEACHERS.....3 sem. hrs.

Topics of elementary algebra from an advanced viewpoint. Consideration will be given to topics of contemporary school mathematics programs. (Spring only).
Prerequisite: Ed. 65.352 or concurrent registration.

53.312 MODERN ALGEBRA II.....3 sem. hrs.

An extension of the study of abstract mathematical systems, including Euclidean domains, polynomials, field extensions, finite groups, and Galois Theory. (Alternate years. Next offered fall 1975).
Prerequisite: 53.211.

53.322 DIFFERENTIAL EQUATIONS.....3 sem. hrs.

Study of elementary ordinary differential equations; infinite series and power series, and La Place transforms.
Prerequisite: 53.221.

53.331 MODERN GEOMETRY.....3 sem. hrs.

Non-Euclidean geometries and their development from postulate systems and a formal approach to projective geometry. (Alternate years. Next offered Spring 1976).

53.341 ADVANCED STATISTICS.....3 sem. hrs.

Emphasis on continuous probability spaces, statistical distributions, and applications of statistics. (Alternate years. Next offered fall 1975).
Prerequisite: 53.122, 53.241.

53.371 COMPUTER ORGANIZATION.....3 sem. hrs.

Computer components and their organization; compiler and assembly systems; input/output; subroutines and macros. (Alternate years. Next offered Fall 1976).
Prerequisite: 53.271.

53.372 COMPUTER APPLICATIONS IN SECONDARY SCHOOL MATHEMATICS.....3 sem. hrs.

Techniques for incorporating computers in the mathematics curriculum in secondary schools. Preparation and use of computer assisted instruction, using the Basic and Fortran languages. (Fall only).
Prerequisite: 53.271 and permission of the instructor.

53.411 INTRODUCTION TO GROUP THEORY . . . . . 3 sem. hrs.

Fundamentals of group theory. Topics included are groups and related systems, normal subgroups and homomorphisms, Abelian groups, permutation groups, automorphisms, and free groups. (Alternate years. Next offered Fall 1976).
Prerequisite: 53.211.

53.421 ADVANCED CALCULUS . . . . . 3 sem. hrs.

A rigorous treatment of the concepts of limit, continuity, derivative, and integral for functions of a single real variable.
Prerequisite: 53.221 or 53.226.

53.422 COMPLEX VARIABLES . . . . . 3 sem. hrs.

Presentation of theory through the differential and integral calculus of analytic functions, residues, and conformal transformations, with applications. (Alternate years. Next offered Spring 1974).
Prerequisite: 53.221.

53.451 INTRODUCTION TO TOPOLOGY . . . . . 3 sem. hrs.

Fundamentals of general topology: elementary set theory, topological spaces, mappings, connectedness, compactness, completeness, product and metric spaces, nets and convergence. (Alternate years. Next offered Spring 1975)
Prerequisite: 53.221 or 53.226.

53.461 NUMBER THEORY . . . . . 3 sem. hrs.

Theory of numbers. Topics included are Euclidean algorithm, congruences, continued fractions, Gaussian integers, and Diophantine equations. (Spring only).
Prerequisite: 53.211.

53.471 ELEMENTARY NUMERICAL ANALYSIS . . . . . 3 sem. hrs.

A computer-oriented analysis of algorithms of numerical analysis. Topics discussed include non-linear equations, interpolation and approximation, differentiation and integration, matrices, and differential equations. (Alternate years. Next offered Spring 1975).
Prerequisite: 53.271, 322.

53.472 MATRIX COMPUTATION . . . . . 3 sem. hrs.

Computer-oriented techniques applied to inversion of matrices; diagonalization of matrices; band matrices; and the associated solution of linear algebraic equations. (Alternate years. Next offered Spring 1976).
Prerequisite: 53.117 or 212, 271.

53.491 SPECIAL TOPICS IN MATHEMATICS . . . . . 3 sem. hrs.

Presentation of an area of mathematics which is not available as a regular course offering.
Prerequisite: Permission of the instructor.

53.492 INDEPENDENT STUDY IN MATHEMATICS . . . 1-3 sem. hrs.

A directed study of a particular area of mathematics as mutually agreed upon by the student and his instructor. The emphasis is on individual scholarly activity of the highly motivated student.

PHYSICS

Professors Halbert F. Gates (Chairman), David J. Harper, Tobias F. Scarpino, David A. Superdock; Associate Professor M. Gene Taylor; Assistant Professors P. Joseph Garcia, Stephen G. Wukovitz.

Arts and Sciences major for the B.A. degree:

Chemistry 52.102, 113; Mathematics 53.121, 122, 221, 322; Physics 54.211, 212, 310, 311, 314; 12 semester hours chosen from other Physics courses numbered above 300.
Recommended: Mathematics 53.171, or 53.172 or 271.

Arts and Sciences major for the B.S. degree:

Chemistry 52.102, 113; Mathematics 53.121, 122, 221, 322; 53.171 or 172 or 271; 3 semester hours chosen from Mathematics 53.212, 422, 471; Physics 54.211, 212, 310, 311, 314; 18 semester hours chosen from other Physics courses numbered above 300.

Note: Requirements for the major for the B.S. in Ed. degree are found in the section on Secondary Education, School of Professional Studies.

COURSES

(Code 54)

Courses marked † may be applied toward General Education.

54.101 BASIC PHYSICAL SCIENCE † ..... 3 sem. hrs.

An introductory integration of concepts and principles from chemistry, physics, and astronomy, with consideration for the nature of scientific thought and of the interaction of science with human and community concerns. For non-scientists.

54.103 PRINCIPLES OF PHYSICAL SCIENCE I † ..... 3 sem. hrs.

An integrated physical science course emphasizing laboratory experience. Especially recommended for elementary teachers. Encourages the development of mental models to correspond with experience. Atoms, molecules, materials, and chemical change; energy; light and electricity. 4 hours lab-discussion/week.

54.104 PRINCIPLES OF PHYSICAL SCIENCE II † ..... 3 sem. hrs.

A continuation of 54.103. Astronomy, atomic theory, geology, crystallography, and chemical bonding. 4 hour lab-discussion/week.
Prerequisite: 54.103 or consent of instructor.

54.107 APPLIED PHYSICS FOR MEDICAL TECHNOLOGISTS ..... 4 sem. hrs.

Selected principles of physics with applications to the processes and instrumentation of medical technology. Mechanics, fluids, kinetic energy and heat, optics, electricity, ions, electronics, atomic structure, radiation, and data acquisition and readout. 3 hours class, 3 hours laboratory per week.

54.111 INTRODUCTORY PHYSICS I † . . . . . 4 sem. hrs.

A continuation of 54.111. Electricity, magnetism, light, relativity, quantum and atomic theory, structure of matter, and nuclear and particle physics. 3 class, 3 laboratory/week.
Prerequisite: 54.111 or consent of instructor.

54.112 INTRODUCTORY PHYSICS II † . . . . . 4 sem. hrs.

An intuitive approach to selected topics presented for the student not intending to specialize in physics or chemistry. Mechanics, heat, kinetic molecular theory of gases, wave motion, and sound. 3 class, 3 laboratory/week.

54.211 GENERAL PHYSICS I † . . . . . 4 sem. hrs.

A continuation of 54.211. Wave motion, sound, geometrical and physical optics, electricity, and magnetism. 3 class, 3 laboratory/week.
Prerequisite: Math 53.122 or 123 or concurrent registration; Phys 54.211, or 54.111 with consent of instructor.

54.212 GENERAL PHYSICS II † . . . . . 3 sem. hrs.

An introductory treatment using calculus; appropriate for physical science or mathematics majors. Mechanics, the physics of fluids, kinetic theory, heat, and thermodynamics. 3 class, 3 laboratory/week.
Prerequisite: Math 53.121 or 123 or concurrent registration in either.

54.225 DEMONSTRATIONS IN THE PHYSICAL SCIENCES . . . . . 3 sem. hrs.

Theory, design, and presentation of demonstration experiments for the teaching of the physical sciences, including some attention to specialized audio-visual media. Special consideration of apparatus for new curricula such as PSSC, CHEM Study, HPP, ESCP, and IPS. 2 class, 2 laboratory/week.
Prerequisite: Phys 54.112; Chem. 52.112; or their equivalent.

54.304 NUCLEAR RADIATIONS . . . . . 2 sem. hrs.

A laboratory-oriented course dealing primarily with basic techniques for detecting, measuring, and analyzing nuclear radiations. Applications of nuclear radiations in science and technology. Aspects of radiation safety and radiation pollution of the environment. 1 class, 3 laboratory/week.
Prerequisite: 54.112 or 212 or consent of instructor.

54.310 MODERN ATOMIC PHYSICS † . . . . . 4 sem. hrs.

Application of the "modern" atomic concepts of quantum theory, wave mechanics, and relativity to appropriate topics such as the electron, scattering. 3 class, 3 laboratory/week.
Prerequisite: Phy 54.212, or 54.112 with consent of instructor.

54.311 MECHANICS . . . . . 3 sem. hrs.

Statics and dynamics of single particles and particle systems.
Prerequisites: Phy 54.212, or 54.112 with consent of instructor; Math 53.221 or consent of instructor.

54.314 ELECTRICITY AND MAGNETISM ..... 4 sem. hrs.

Electric and magnetic fields, potential, dielectric properties, electric circuits, electromagnetic induction, and magnetic properties of matter, with a brief introduction to electromagnetic waves. 3 class, 3 laboratory/week.
Prerequisites: Phy 54.212, or 54.112 with consent of instructor; Math 53.221.

54.315 ELECTRONICS † ..... 4 sem. hrs.

Theory and application of semiconductors and vacuum tubes with special emphasis on circuitry. Study of basic electronic instrumentation as related to the gathering, processing, and display of scientific data in any discipline. 3 class, 3 laboratory/week.
Prerequisite: 54.112 or 54.212.

54.318 OPTICS ..... 4 sem. hrs.

A combination of geometrical optics including lens theory with physical (wave) optics including diffraction, interference, polarization, lasers, and coherent light. 3 class, 3 laboratory/week.
Prerequisite: 54.212 or 54.112 with consent of instructor.

54.420 VIBRATIONS AND WAVES .. .. 3 sem. hrs.

Simple harmonic, damped, and forced oscillations. Propagation of waves in three dimensions including reflection, refraction, superposition, diffraction, and interference. Application of general principles to acoustic, fluid, mechanical, matter, and electromagnetic waves.
Prerequisites: Phys 54.311; Math 53.221.

54.421 SOLID STATE PHYSICS ..... 3 sem. hrs.

Physical properties of matter in the solid state. Basic quantum concepts, crystal structure, electrons in metals, electrical conductivity, semiconductors, band theory, and the p-n junction. Dielectric and magnetic properties of matter.
Prerequisites: Phys 54.312, 54.310; Math 53.322.

54.422 THERMODYNAMICS ..... 3 sem. hrs.

Concepts and principles of classical theormodynamics. Thermodynamics of simple systems. Achievement and measurement of low temperatures. Introduction to kinetic theory.
Prerequisites: Phys 54.212 or 54.112 with consent of instructor; Math 53.221.

54.480 HISTORY OF PHYSICAL SCIENCE ..... 3 sem. hrs.

An account of the development of physical science from the time of Copernicus to the present with attention to the nature of scientific investigation, assumptions, constructs and models, and the interaction of science with other thinking.
Prerequisite: Phys 54.112; Chem. 52.112; or their equivalent.

54.490 SEMINAR IN PHYSICS ..... 1 sem. hr.

54.491 INDEPENDENT STUDY . . . . . 1-3 sem. hrs.

An investigation of an area of special interest and value to the student, under the direction of a faculty member, and following a plan approved in advance by the department chairman. May be partly interdisciplinary and may involve limited experimental work.

54.493 INDEPENDENT RESEARCH . . . . . 1-3 sem. hrs.

An application of theoretical and/or experimental research methods to a special problem and the preparation of a report. May be interdisciplinary. A plan acceptable to the student and to supervising faculty member must be approved in advance by the department chairman.

8. SCHOOL OF PROFESSIONAL STUDIES

8.1 ORGANIZATION AND FUNCTIONS

The School of Professional Studies administers curricula in Teacher Education, Public School Nursing and Medical Technology, and offers the courses in education, special education, communication disorders and nursing.

There are five departments which offer courses in professional education and administer teacher education programs for elementary and secondary schools.

8.2 TEACHER EDUCATION

8.2.1 GENERAL INFORMATION

Accreditation of Teacher Education

The College is accredited by the National Council for the Accreditation of Teacher Education (NCATE). All teacher education programs outlined in this catalogue have been approved for teacher certification by the Pennsylvania Department of Education.

Scope of Teacher Education

Programs are offered for preparation of teachers for elementary schools, teachers of academic subjects in secondary schools, teachers in special education, teachers of communication disorders and teachers of business education. The Business Education program is administered in the School of Business; the other teacher education programs are administered in departments of the School of Professional Studies.

Degree

Each of the undergraduate programs for teacher education outlined in this catalogue leads to the degree, Bachelor of Science in Education (B.S. in Ed.).

Teacher Certification

The completion of one of the approved programs in teacher education is prerequisite to institutional recommendation for a teacher's certificate. Upon recommendation, an initial certificate is granted by the Commonwealth of Pennsylvania.

The initial certificate is designated as Instructional Level I; it is valid for three years and may be renewed for three additional years upon completion of twelve semester hours of college credit beyond the baccalaureate, and certification of three years of successful teaching. A Level I certificate is not subject to renewal beyond a total of six years. A permanent certificate, Level II, is issued upon certification of three years of successful experience under Level I and the completion of a minimum of twenty-four semester hours of post-baccalaureate course work (the twenty-four semester hours may include the twelve semester hours required in case the Level I certificate was renewed).

The programs offered at Bloomsburg State College for Level I certification are:

Elementary Education

Business Education—Accounting, Secretarial.

Secondary Education—Biology, Chemistry, Communication, Earth and Space Science, English, French, General Science, German, Mathematics, Physics, Social Studies Spanish.

Special Education—Teaching of Mentally Retarded.

Communication Disorders—Speech Correction.

Public School Nursing

Public School Dental Hygienist

Reciprocity of Teachers' Certificates

Pennsylvania is a party to the *Interstate Agreement on Qualifications for Educational Personnel* which provides that holders of Pennsylvania certificates are eligible for certificates in the other states which are parties to the agreement. Currently, there are twenty-three such states.

Admission to Teacher Education

Students who wish to take teacher education curricula enroll tentatively in the School of Professional Studies and schedule courses in harmony with the requirements of the program they wish to follow. In due course the students apply for admission to

teacher education. Usually, the screening for admission to teacher education takes place after the student has completed 32 or more semester hours and has taken the Sophomore Field Experience intended to help him to assess his decision. Scholarship and pertinent personal attributes are weighed in determining admission to teacher education; the criteria reflect the responsibility of a college whose recommendation is a sufficient basis for the issuing of a teacher's certificate. If a student who was tentatively enrolled in the School of Professional Studies is not admitted to teacher education, he is transferred to the School of Arts and Sciences.

Retention in Teacher Education

Admission to teacher education is equivalent to candidacy for the degree, Bachelor of Science in Education. Candidacy for this degree is revoked in case of failure to maintain the required Quality Point Average and may be revoked for other sufficient reason. If candidacy is revoked but the student is otherwise eligible to remain in the College he is transferred to the School of Arts and Sciences; in this case he must reapply for admission to teacher education if he wishes to be reinstated.

Field Experience

Students in Teacher Education are required to engage in a Sophomore field experience during which they work in and observe the educational process in a school of their choice. It is intended that this experience will help the student decide before the Junior year whether he wishes to follow a career in teaching. Participants are exposed to many aspects of teaching and to the operation of the whole school, thus providing experience that should increase the relevancy of course work in professional education.

Other field experiences in addition to student teaching are participated in as part of certain courses in professional education; these may take the form of field trips, observations, and microteaching.

Student Teaching

Pre-professional teacher education culminates in student teaching for a semester in public schools of Pennsylvania.

Undergraduates who have satisfied the prerequisites for student teaching courses are assigned to student teaching during the first or second semester of their senior year. They are placed

according to the availability of qualified cooperating teachers in their subject area and the willingness of schools with programs approved by the College to cooperate with the College in its program in Teacher Education. Students should be prepared to accept assignments in any of the student teaching centers.

The student teaching semester is divided into two equal periods; this provides an opportunity for students to teach at two grade levels and frequently in two socio-economic environments.

Because of the constantly changing educational and socio-economic scene, flexibility of format is maintained in the student teaching program.

Student Teaching Centers

The College selects its student teaching centers and cooperating teachers in urban, suburban, and rural areas. Students in Elementary Education are assigned to central Pennsylvania, suburban Philadelphia, and certain inner-city locations. Students in Secondary Education may be assigned to teach in central Pennsylvania, suburban Philadelphia, or in the cities of Philadelphia and Harrisburg. Business Education student teaching centers are located in the Bloomsburg, Allentown, and Williamsport areas. Students in the Division of Human Resources and Services are assigned to the White Haven State School and Hospital. Selinsgrove State School and Hospital, and to public schools located in central and southeastern Pennsylvania.

8.2.2 ELEMENTARY EDUCATION CURRICULUM

(Donald C. Miller, Curriculum Coordinator)

The curriculum in elementary education is designed to prepare for beginning teaching positions in the elementary schools. The curriculum consists of four sets of courses as follows:

A. General Education. (See Section 6.3)

B. Academic Background courses: (*A teacher in the elementary school must be prepared to teach many subjects. To provide the background, the curriculum requires a broad distribution of academic background courses; frequently, these may be elected from courses which are designated as General Education courses and therefore may be counted also toward the General Education requirement.*) Mathematics, 6 semester hours; Biology, 3 semester hours; Chemistry or Physics or General Physical Science, 3 semester hours; Elective credit in science or mathematics, 3 semester hours; Psychology 48.101; fifteen semester hours elected from three of the disciplines listed as Social Science in Section 6.3; fifteen semester hours elected from at least three disciplines listed as Humanities in Section 6.3, including at least three semester hours in English.

C. Professional Education and Elementary Specialization. (These courses are intended to develop knowledge of the nature of the child, the nature of the school, the learning process, general methods of teaching and methods of teaching particular subjects, and provide student teaching experience.)

PSYCHOLOGY

48.211 - Developmental Psychology
48.271 - Educational Psychology

EDUCATION

60.393 - Social Foundations of Education
62.302 - Methods and Materials in Elementary School Science
62.371 - Teaching of Reading
62.395 - Curriculum and Instruction in the Elementary School
62.401 - Student Teaching in the Elementary School
62.398 - Methods and Materials in Mathematics
62.411 - Seminar

ELECTIVE

Nine semester hours must be elected from the following courses:

Art 30.305 - Children's Art
English 20.351 - Literature for Children
Music 35.311 - Music in the Elementary School
HPE 05.311 - Methods and Materials in Elementary School Health and Physical Education
Education 62.321 - Early Childhood Education-Kindergarten
Education 62.322 - Early Childhood Education - Nursery
Education 60.311 - Educational Measurements
Psychology 48.321 - Tests and Measurements

D. Minor. Each student is required to select a minor in which he takes eighteen semester hours. This is intended to develop scholarship in one discipline which contributes depth to a liberal education and gives a background in a subject that may make the student a potential leader and resource person in the teaching of that subject in the elementary school.

The student should choose as his minor a subject in which he has strong interest. It may be selected from the following: Art; Biology; Economics; English; French; Geography; German; Speech; Sociology; History; Mathematics; Music; Philosophy; Political Science; Exceptional Children; Health and Physical Education.

The selection of courses for the minor is subject to advisement and approval by the department as well as by the student's curriculum adviser. Certain of the departments specify eighteen semester hours of courses which are prerequisite to departmental approval; the student, therefore, is urged to consult with the department in advance of registration for the first courses intended to satisfy the requirement. The department may designate a departmental adviser for consultation with respect to the minor.

The minor has no significance for teacher certification.

E. Free electives if necessary to complete the minimum graduation requirement of 128 semester hours.

8.2.3 SECONDARY EDUCATION CURRICULA

The Secondary Education Curriculum is planned to offer academic, cultural and professional experiences significant to the personal and professional competence of a beginning teacher of a subject area in the secondary schools.

The curriculum requirements comprise General Education, Professional Education and the Subject Area Specialization, as follows:

A. General Education. (Section 6.3)

B. Professional Education. (*See course descriptions for prerequisites of these courses.*)

Education 60.393—Social Foundations of Education ..... 3 sem. hrs.
Psychology 48.271—Educational Psychology ..... 3 sem. hrs.
Education 65.396—Curriculum and Instruction ..... 6 sem. hrs.
Education 65.402—Student Teaching ..... 12 sem. hrs.
Education 65.411—Seminar in Secondary Education ..... 3 sem. hrs.

C. Area of Specialization. Each major (or area of specialization) is designed to develop scholarship basic to teaching the subject and, to a degree governed by the limits of time and the discrimination of the student in choosing electives, basic to graduate study. The requirements for each area of specialization follow.

D. Free electives if necessary to complete the minimum graduation requirement of 128 semester hours.

AREAS OF SPECIALIZATION

BIOLOGY

Biology 50.210, 220, 332, 351;
Chemistry 52.101 and/or 102, 113;
Mathematics 53.141;
Fifteen semester hours elective in chemistry, including 6 semester hours in field courses.
Physics is recommended; students who plan to enter graduate study should take both 54.111 and 54.112.

CHEMISTRY

Chemistry 52.102, 113, 122, 231, 232, 311, 312, 490;
Physics 54.211, 212;
Mathematics 53.121, 122, 221;
Biology 50.101, 111; or 50.210 or 50.220.

COMMUNICATION

The requirements for the certificate in Communication comprise: 27 semester hours in core courses; 15 semester hours in one of four emphasis options; three semester hours in each of the remaining three emphasis options. (Total, 51 semester hours.)

Core Courses

One course from English 20.120, 20.121;
one course from 20.220, 20.221, 20.222, 20.223;
one course from 20.260, 20.360, 20.361, 20.362;
one course from 20.311, 20.312, 20.411;
Speech 25.103, 25.105, 25.208, 25.231, and 25.241. (Total core courses, 27 semester hours.)

Emphasis Options

Speech option:
15 semester hours elected from 25.211, 25.311, 25.312, 25.318, 25.319 25.325, 25.421, 25.492.

Theatre option:
15 semester hours elected from 25.206, 25.218, 25.285, 25.307, 25.319, 25.411, 25.414, 25.415, 25.416, 25.490.

Literature option:
One course elected from 20.120, 20.121, 20.220, 20.221, 20.222, 20.223, 20.251;
one author course elected from 20.260, 20.381, 20.382, 20.383;
one genre course elected from 20.153, 20.251, 20.280, 20.333, 20.360, 20.361, 20.362, 20.370, 20.371, 20.372, 20.373, 20.374, 20.380;
one period survey courses elected from 20.120, 20.121, 20.220, 20.221, 20.222, 20.223, 20.331, 20.332, 20.341, 20.342, 20.343, 20.344, 20.345;

Writing option:

Five courses elected from 20.105, 111, 205, 255, 301, 302; or four of the preceding plus any literature course except 20.151.

EARTH AND SPACE SCIENCE

Mathematics 53.112 plus one of the following 53.113, 121, 123, and 141;
Physics 54.111;
Chemistry 52.102, 113;
Physics 54.112 or one additional Chemistry course;
Earth Science 51.101, 253, 255, 259; plus 4 additional courses from 51.102, 105, 361, 362, 365, 369, 451, 468, 475 and selected courses from Marine Science Consortium (55).
Maximum of 9 credits from Marine Science Consortium may be applied towards requirements for the major.

FRENCH

French 10.103, 104, 201, 211, 212;
Twelve semester hours in French literature;
Departmental examination in French.
Students whose placement tests exempt them from either or both courses, 10.103, 104, will substitute advanced elective courses in French.

ENGLISH

English 20.120 or 121;
English 20.220 or 221;
English 20.222 or 223;
One additional course from above groups, not previously taken;
English 20.260, 302;
English 20.312 or 20.311 or 20.411;
Twelve semester hours in additional elective courses (300 or 400 level) in English.

GENERAL SCIENCE

Biology 50.101, 102, 111, 112; or 50.210, 220; 351; one course at 300 or 400 level;
Chemistry 52.102, 113;
Physics 54.111, 112;
Earth Science 51.101, 253, 255, 259;
Mathematics 53.111, 112;
Elective courses, 11 semester hours minimum, from one or more of the areas of Biology, Earth Science, Physics, Chemistry, or Mathematics.

GERMAN

German 11.103, 104, 201, 202, 211, 212;
Twelve semester hours in German literature;
Departmental examination in German.
Students whose placement tests exempt them from either or both courses, 11.103, 104, will substitute advanced elective courses in German.

MATHEMATICS

Mathematics 53.125, 126, 171 or 172, 211, 225, 226, 231, 241;
Twelve semester hours to be elected from 53.117, 212, 271, 281, 311, 312, 322, 331, 341, 371, 372, 411, 421, 422, 451, 461, 471, 472, 491, 492.
Recommended courses: Physics 54.211, 212.

PHYSICS

Physics 54.211, 212, 310, 311, 314;
Six semester hours chosen from physics courses numbered higher than 54.212;
Chemistry 52.102, 113;
Mathematics 53.121, 122, 221, 322.
Recommended courses: Biology 50.210, 50.220, Earth Science 51.101, 253, Mathematics 53.171 or 172.

COMPREHENSIVE SOCIAL STUDIES

The Social Studies Specialization requires 36 semester hours in prescribed core courses and the completion of one of seven specialization options.

Core Courses

Anthropology 46.200;
Economics 40.211, 40.212;
Geography 41.101, 41.102;
History 42.112, 42.113;
History 42.203 or 42.204, or 42.208 or 42.223;
Political Science 44.101, 44.161;
Sociology 45.211.
Psychology 48.101.

Specialization Options

Social Problems - Economics

Political Science 44.366 or Sociology 45.213;
Economics 40.413, 40.422;
Twelve semester hours elective in Economics.

Social Problems - Geography

One Course from Geography 41.125, 253, 256, 354, Earth Science 51.101, 102, 255, 259;
One course from 41.213, 221, 258, 310, 324, 463;
One course from 41.321, 333, 343, 344, 345, 346;
Nine semester hours elective in Geography;
Three semester hours elective in Economics, or Geography, or Sociology or Political Science or History.

Social Problems - History and Government

One course in United States History;
One course in European History;
One course in history of the non-western world;
One course from Political Science 44.326, 336, 351, 356, 429, 437, 446, 448, 453, 458;
One course from 44.363, 366, 368, 371, 373, 181, 383, 487;
Six semester hours elective in History and/or Political Science.

Social Problems - Political Science

18 semester hours distributed among four groups with at least three semester hours in each group: Political Theory, 44.403, 405, 409, 418, 492; American Government and Politics, 44.326, 336, 351, 356, 429, 437, 446, 448, 453, 458; Foreign Governments and Politics, 44.363, 366, 368, 371, 373; International Politics, 44.181, 383, 487.
3 semester hours elective in Economics or Sociology or History or Geography.

Social Problems - Sociology

Political Science 44.366 or 44.383;
Sociology 45.213, 45.315;
Sociology 45.316 or 45.318;
Nine semester hours elective in Sociology.

History - Broad Approach

History 42.398;
Minimum of one course from each of the following groups: Ancient to Early Modern, Modern Europe, Non-western World, United States;
Three semester hours elective in history; Six semester hours elective in two of the following: Economics, Sociology, Political Science, Geography, Philosophy.

History - Concentrated Approach

History 42.398;
Fifteen semester hours selected in a concentration in European or Non-western World, or United States History;
Six semester hours elective in history apart from the concentration.

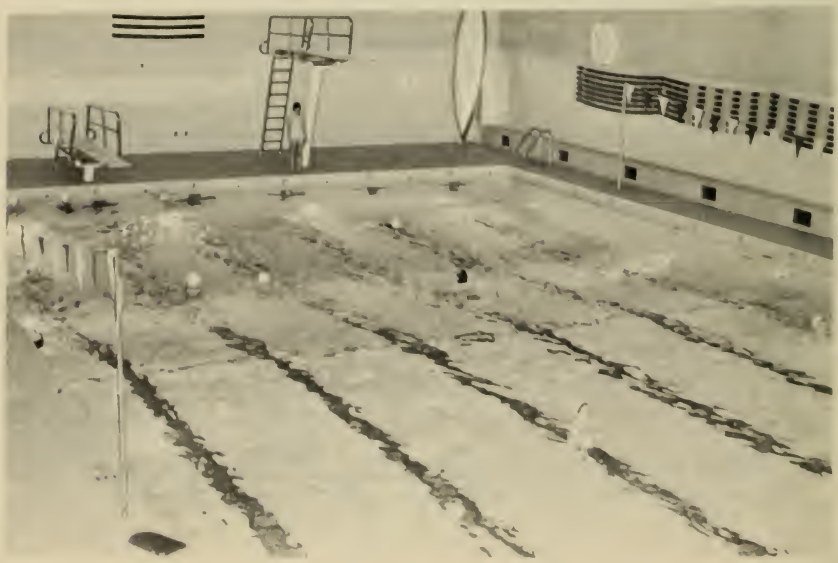
SPANISH

Spanish 12.103, 104, 201, 202;
Two courses chosen from 12.210, 211, 410;

Twelve semester hours in Spanish literature;
Departmental examination in Spanish.
Students whose placement tests exempt them from either or both courses, 12.103, 104, will substitute advanced elective courses in Spanish.

COACHING

The following courses are recommended to be elected by students who expect to coach athletics in addition to teaching in their field of specialization: Physical Education 05.242, 05.409; one or two courses from 05.251, 252, 253; two courses from 05.256, 259, 260. Completion of these courses does **not** lead to certification.



8.3 DEPARTMENT OF SPECIAL EDUCATION

The Department of Special Education offers a certification program for teachers of Mentally Retarded children, an area of concentration for students in Elementary Education and the courses and experiences which support these curricula.

The Department of Special Education, located in Navy Hall, is equipped with therapy rooms, television equipment and equipment and materials used in the training of exceptional children.

Students enrolled in Special Education have the opportunity of participating in practicum with the mentally retarded in supervised and graded special classes. After the completion of course work, students participate in full-time student teaching in White Haven State School and Hospital, Selinsgrove State School and Hospital, Laurelton State School and Hospital, Pennhurst State School and Hospital, and to public schools in Chester, Columbia, Lackawanna, Luzerne, Lycoming, Montgomery, Montour, Northampton, Northumberland, Lehigh, Bucks, Snyder, Sullivan and Centre Counties.

CURRICULUM FOR TEACHING THE MENTALLY RETARDED

A. General Education. (See Section 6.3)

B. Academic Background Courses: Mathematics 53.201; Psychology 48.101; Speech 25.103; Geography 41.101 or 41.102.

(A number of these academic background courses are designated by the departments as applicable to the General Education requirements. These may be elected by the students in partial fulfillment of that requirement.)

C. Professional Education and related courses: Education 60.393, 62.371, 62.397; Psychology 48.211; 48.231 or 48.416; Health and Physical Education 05.420.

D. Specialization: Psychology 48.321; Special Education 70.201, 451; Teaching Mentally Retarded 71.201, 303, 351, 352, 361, 401, 432.

E. Free elective courses: if necessary to complete the minimum of 128 semester hours for graduation.

8.4 DEPARTMENT OF COMMUNICATION DISORDERS

The objective of this curriculum is to prepare personnel to work in public schools, hospitals, clinics and rehabilitation centers with individuals who are handicapped in speech, hearing and language.

Upon successful completion of the curriculum and recommendation by the College, certification in speech correction is granted by the Pennsylvania Department of Education. The curriculum provides academic and clinical work which constitute part of the prerequisite for the Certificate of Clinical Competence in Speech Pathology or Audiology issued by the American Speech and Hearing Association; additional prerequisites include a master's degree and certain prescribed experience.

Students entering the programs of training of the Department of Communication Disorders subsequent to June 1, 1971 are required to complete the bachelor's degree and the master's degree in order to be eligible for recommendation by the College for certification by the Pennsylvania Department of Education.

Students in the Elementary Education curriculum may choose as their minor a sequence in Communication Disorders with emphasis upon the Education of the Hearing Impaired. These students are advised jointly by the Department of Communication Disorders and the Department of Education; their total curriculum leads to certification for elementary schools.

Subsequent training and a master's degree can lead to certification in the area of hearing impaired.

CURRICULUM IN COMMUNICATION DISORDERS

(Dr. James Bryden, Curriculum Coordinator)

A. **General Education.** (See Section 6.3)

B. **Professional and related requirements:** Communication Disorders 74.152, 251, 252, 253, 276, 351, 352, 376, 402, 460, 461, 467;
Fifteen semester hours elected with departmental approval from Communication Disorders 74.302, 390, 452, 466, 472, 475, 480, Psychology 48.101, 211, 260, 321, 375, 416, Special Education 70.201, 354, 454, English 20.311, 411.

C. **Elective courses** *to complete the minimum graduation requirement.*

8.5 MEDICAL TECHNOLOGY CURRICULUM

(Dr. Philip A. Farber, Curriculum Coordinator)

The formal program in Medical Technology consists of 98 semester hours of courses prescribed by the College, followed by one year of clinical study and experience in an affiliated School of Medical Technology. Bloomsburg State College has formed affiliations with: Abington Memorial Hospital, Abington, Pa.; Geisinger Medical Center, Danville, Pa. (major affiliate); Lancaster General Hospital, Lancaster, Pa.; Mercy Catholic Medical Center of Southeastern Pennsylvania, Darby, Pa.; Robert Packer Hospital, Sayre, Pa.; Sacred Heart Hospital, Allentown, Pa.; Scranton State General Hospital, Scranton, Pa.; Wilkes-Barre General Hospital, Wilkes-Barre, Pa.; Williamsport Hospital, Williamsport, Pa.

The student enrolls initially in Pre-professional Studies and follows the list of courses prescribed in the Medical Technology program. Application for transfer to the School of Professional Studies and formal admission to Medical Technology may be made after the student has earned thirty semester hours of credit and before the completion of sixty-four semester hours. Selection of candidates for admission to the clinical year is determined jointly by the College and the Medical Center.

Students who are not selected for admission to the program may continue to take the prescribed courses and may apply as individuals to other approved hospital programs. Assistance in making application is offered by the College, but admission is determined solely by the hospital. A student who obtains admission to an approved hospital program is thereupon granted formal admission to the program in Medical Technology, with all of the privileges pertaining thereto.

The candidate may choose to satisfy either of two degrees as follows: the degree, *Bachelor of Science in Medical Technology* (B.S. in Med. Tech.) is conferred upon successful completion of the prescribed course work, the certification to the College of successful clinic experience, and the passing of the examination of the Board of Registry of Medical Technologists; or the degree *Bachelor of Science* (B.S.) will be conferred upon successful completion of the course work and certification to the College of successful completion of the clinical experience, but without the passing of the Registry Examination.

The course requirements of the Medical Technology Program are:

General Education (See Section 6.3);
Biology 50.210; 50.332 or 333; 50.312 or 331 or 361 or 364; 50.371 or 472; 50.342.
Chemistry 52.101* and/or 52.102; 52.113, 21[illegible] 233, 122.
Physics 54.107 or 54.111;
Mathematics 53.111 or 53.141;
Elective courses as needed to complete 98 semester hours.
Certification of the clinical experience and registry examination is accepted for the final 30 semester hours of the 128 semester hour graduation requirement.

* 50.101 may be waived through satisfactory score on a placement examination administered by the Department of Chemistry.

8.6 PUBLIC SCHOOL NURSING CURRICULUM

(Robert Bunge, Curriculum Coordinator)

A program leading to the degree, Bachelor of Science in Education (B.S. in Ed.) is available for registered nurses who have completed a three-year curriculum in approved schools of nursing and are registered by the State Board of Examiners for the Registration of Nurses in Pennsylvania.

The curriculum requires the completion of 81 semester hours of residence credit at the College as follows:

English 20.101 or 20.102; 20.120 or 20.121;
Speech 25.103; 25.218 or 25.321 or 25.421;
History 42.203 or 42.204 or 42.111 or 42.112 or 42.113;
Sociology 45.211 or Anthropology 46.200; Sociology 45.331;
Political Science 44.101 or 44.161 or 44.181;
Biology 50.101;
HPE 05.411;
Education 60.393; 60.301, 60.451;
Psychology 48.101; 48.211 or 48.416; 48.271; 48.231 or 48.335;
Special Education 70.201 or 71.201;
Communication Disorders 74.276;
Nursing Education 69.301, 69.302, 69.304, 69.311; 69.306 or 69.309; 69.305 or 69.310; 69.401;
Electives from 42.208, 42.371, 42.482, 44.326, 44.429, 44.453, 45.213, 45.315, 45.316, 45.318, 48.351, 60.394.
Registered nurses with less than three years preparation for registration are required to pursue additional coureses to meet the requirements for the degree.

A registered nurse who desires to enroll in the Degree Curriculum for Public School Nurses should write for application blanks and information to the Director of Admissions, Bloomsburg State College, Bloomsburg, Pennsylvania 17815.

8.7 CURRICULUM FOR DENTAL HYGIENISTS

(Robert Bunge, Curriculum Coordinator)

The degree, Bachelor of Science in Education, will be conferred upon dental hygienists meeting the following requirements:

1. The possession of a valid license to practice dental hygiene in the Commonwealth of Pennsylvania issued by the State Dental Council and Examining Board and the Department of Education. (The professional education requirements for dental hygiene are the satisfactory completion of an approved dental hygienist course of instruction of two years of not less than thirty hours each week, or its equivalent in and graduation from a dental hygiene school approved by the State Dental Council and Examining Board.)
2. The satisfactory completion in addition thereto of 70 credit hours of professional and general education courses distributed as follows:

A. General Requirements (48 hours)

English 20.101, 102;
Speech 25.103;
Geography 41.101, 102;
Sociology 45.211 or Anthropology 46.200;
Literature, two electives: Speech, one elective; Art, one elective; Music one elective; Political Science, one elective; Economics one elective; History, two electives in World History, one in U.S. History.

B. Professional Education (9 hours)

Psychology 48.101, 271
Education 60.393
Proficiency in Educational Media.

C. Free Electives as necessary to complete the minimum of 70 semester hours.

8.8 STUDENT AND COMMUNITY SERVICES IN THE SCHOOL OF PROFESSIONAL STUDIES

Speed Reading

Beginning early in each semester, several sections of speed reading are offered to students on a "first come—first served" basis. Classes are limited to ten students. Announcements appear in the Maroon and Gold. Classes usually are held two or three days a week for six weeks.

Center for Learning and Communication Disorders

The Center for Learning and Communication Disorders, located in Navy Hall, provides a number of services to the public on an outpatient basis. The Center provides evaluative and testing services related to speech, voice, language, hearing, hearing aid; and educational-psychological evaluations including reading, writing, spelling, mathematics and intelligence. Following evaluation, therapy programs on a regular basis are provided in the following areas: speech, language, auditory training, speech reading, and parent counseling. A free schedule is available upon request, but no person is denied service because of financial need.

Reading Clinic

The Reading Clinic, located in Benjamin Franklin Hall, offers diagnostic evaluation of reading skills, including selected standardized reading tests, Lovell Hand-Eye Co-ordination test and tele-binocular examination. After evaluation, remedial clinical instruction is provided if desired, including parent counselng. This is a continuing year-round service for which a fee schedule is available upon request.

8.9 COURSE DESCRIPTIONS

EDUCATIONAL STUDIES AND SERVICES

Professors H. M. Afshar, Howard K. Macauley, Jr., Robert C. Miller, Ray C. Rost (Chairman); Associate Professors Thaddeus Piotrowski, David E. Washburn, Matthew Zoppetti; Assistant Professor James H. Neiswender.

COURSES
(Code 60)

Courses marked † may be used toward General Education.

60.101 THE SCHOOL IN CONTEMPORARY AMERICAN SOCIETY † ..... 3 sem. hrs.

American education is analyzed in terms of its interaction with other institutions within the social order. Designed as a General Education course for arts and science students.

60.301 EDUCATIONAL MEDIA ..... 2 sem. hrs.

A comprehensive study of communicative media. Laboratory sessions in use of audio-visual materials in education.
Prerequisite: 60.393; Psychology 48.271.

60.311 EDUCATIONAL MEASUREMENTS AND EVALUATION ..... 3 sem. hrs.

Principles of testing; grading; representative standardized tests; vocabulary of measurement.

60.391 LEARNING AND THE LEARNER ..... 3 sem. hrs.

Psychological foundations of education: individual differences; learning theories applied to classroom situations; physical and mental growth; personality development and mental hygiene.
Prerequisite: Psychology 48.101; Sociology 45.211 or 46.200.

60.392 HISTORICAL AND INTELLECTUAL FOUNDATIONS OF AMERICAN EDUCATION † ..... 3 sem. hrs.

Development of American education in the perspective of history.
Prerequisite: Psychology 48.101; Sociology 45.211 or 46.200.

60.393 SOCIAL FOUNDATIONS OF EDUCATION † ..... 3 sem. hrs.

Social processes underlying education: current social forces; the place of the school in American culture; impact of social stratification; role of the teacher in a period of rapid social change.
Prerequisite: Psychology 48.101; Sociology 45.211 or 46.200.

60.394 EDUCATION IN URBAN SOCIETY † ..... 3 sem. hrs.

Systematic study of problems of education in the urban setting. Designed primarily for students who plan to teach in urban schools.
Prerequisite: Psychology 48.101; Sociology 45.211 or 46.200.

60.421 CURRICULUM DEVELOPMENT . . . . . 3 sem. hrs.

Current curricular offerings of elementary and secondary schools. Emphasis upon philosophical, social, political and technical trends in the community, nation, and the world, and their effect upon the role of the teacher and the school in curriculum development.

60.431 INDEPENDENT STUDY . . . . . 1-3 sem. hrs.

Admission only with consent of the department chairman.

60.441 WORKSHOP IN EDUCATION . . . . . 3-6 sem. hrs.

Study of selected areas in elementary or secondary education including research by individual students in a special teaching field.
Prerequisite: Nine semester hours in education, and teaching experience.

60.451 PUPIL PERSONNEL SERVICES IN THE PUBLIC SCHOOL . . . . . 3 sem. hrs.

A comprehensive study of pupil personnel services in elementary and secondary schools: school attendance, school health programs, pupil transportation, psychological services, guidance services.

ELEMENTARY EDUCATION

Professors Donald A. Vannan, Lynn A. Watson; Associate Professors Warren I. Johnson (Chairman), Donald C. Miller, Ann Marie Noakes, R. Edward Warden, William S. Woznek; Assistant Professors Richard J. Donald, Charlotte M. Hess, John R. Hranitz, Robert L. Remaley, Jr.

COURSES

(Code 62)

62.302 METHODS AND MATERIALS IN ELEMENTARY SCHOOL SCIENCE . . . . . 3 sem. hrs.

Emphasis is placed on the major methods and materials used in elementary school science. Includes the environmental experiences of children and new areas where the experiences of children are limited.
Prerequisite: 3 semester hours in biology and 3 semester hours in physics.

62.321 EARLY CHILDHOOD EDUCATION - KINDERGARTEN . . . . . 3 sem. hrs.

A study of the physical, mental, emotional, and social levels of the kindergarten age child; environmental factors that foster child growth; the kindergarten program set up to meet the needs of this age child and to provide background for later ventures into reading, arithmetic, science, social studies, music, art, literature, physical education and health.
Prerequisite: Psychology 48.211.

62.322 EARLY CHILDHOOD EDUCATION - NURSERY . . . . . 3 sem. hrs.

A study of the needs of three, four, and five year old children and experiences adapted to what is known about growth needs at these age levels. Health, social services and education activities which may improve the child's opportunities and achievements.
Prerequisite: Psychology 48.211.

62.371 TEACHING OF READING IN THE ELEMENTARY GRADES . . . . . 3 sem. hrs.

Developmental reading from readiness through the entire elementary school curriculum.

62.372 FOUNDATIONS OF READING INSTRUCTION . . . 3 sem. hrs.

The reading program in the elementary and/or secondary school: comprehension, speed, study skills, library skills, recreation and enrichment, and methods of using information. Development of an elementary or a secondary school reading program required of each student.
Prerequisite: Psychology 48.271.

62.373 DIAGNOSTIC AND REMEDIAL READING . . . . . 3 sem. hrs.

Diagnostic and remedial procedures emphasizing both standardized and informal techniques. Designed for elementary and/or secondary school teachers.
Prerequisite: Education 62.371 and/or 62.372.

62.375 READING FOR THE SOCIALLY DISADVANTAGED CHILD ..... 3 sem. hrs.

Methods and materials for the instruction of the disadvantaged child (K-12). Techniques and theories are presented as they may be applied to help the socially disadvantaged child function more adequately in the school environment.

62.389 INDIVIDUALIZING INSTRUCTION ACTIVITIES IN THE ELEMENTARY SCHOOL ..... 3 sem. hrs.

Designed for elementary education students with junior standing or above. The course emphasizes procedures for helping individuals learn, the informal school concept, and rearranging the elementary classroom into an efficient and effective learning area with emphasis on language arts centers, mathematics centers, science centers, and social studies centers. British elementary education; elementary education in North Dakota and Vermont.

62.395 CURRICULUM AND INSTRUCTION IN THE ELEMENTARY SCHOOL ..... 6 sem. hrs.

Curriculum study, methods and practices in the language arts, and social studies. Includes educational media.
Prerequisite: Education 60.393; 60.391 or Psychology 48.271.

62.397 SCIENCE AND MATHEMATICS IN THE ELEMENTARY SCHOOL ..... 3 sem. hrs.

Designed to provide prospective elementary teachers with the methods, materials, skills, understandings and attitudes to help them to meet the needs of children in the areas of science and mathmatics.
Prerequisite: three sem. hrs. in Biology; three sem. hrs. in Physics; six sem. hrs. in mathematics.

62.398 METHODS AND MATERIALS IN MATHEMATICS IN THE ELEMENTARY SCHOOL ..... 3 sem. hrs.

Mathematical methods, materials, understandings and attitudes essential in the teaching of contemporary programs in the elementary school.
Prerequisite: 6 sem. hrs. in mathematics.

62.401 STUDENT TEACHING IN THE ELEMENTARY SCHOOL ..... 12 sem. hrs.

Scheduled on full semester basis with a minimum of 30 hours per week. Opportunities for direct participating experience at two grade levels and in as many areas of the elementary curriculum as possible. Association with carefully selected master teachers.
Prerequisite: Quality Point Average and other qualifications for admission to and retention in teacher education.

62.404 INTERIM TEACHING IN THE ELEMENTARY SCHOOL ..... 3-6 sem. hrs.

Full-time teaching in the elementary school with an interim certificate under the direction and supervision of the professional staff in cooperation with local school districts.

62.411 PROFESSIONAL PRACTICUM SEMINAR IN ELEMENTARY EDUCATION ..... 3 sem. hrs.

Designed for Elementary student teachers. Includes references to School Law, Professional Ethics and current educational research. Scheduled concurrently with Student Teaching.

62.431 INDEPENDENT STUDY IN ELEMENTARY EDUCATION ..... 1-3 sem. hrs.

Consent of the Department Chairman required.

62.432 SOCIAL STUDIES IN THE ELEMENTARY SCHOOL ..... 3 sem. hrs.

Current objectives, methods and materials in the area of Social Studies in the elementary school. Psychological and sociological needs of children as they are related to the development of a social studies program in the modern school.

62.433 LANGUAGE ARTS IN THE ELEMENTARY SCHOOL ..... 3 sem. hrs.

Introduction to the subjects called the language arts. Problems, methods, techniques and materials related to instruction in the several branches of this area of the elementary school curriculum.

62.441 ELEMENTARY EDUCATION WORKSHOP ..... 3 sem. hrs.

Permits teachers in service to engage in individual or group study of classroom subjects or problems of interest or concern to them in their teaching.

62.442 WORKSHOP, TEACHING SCIENCE IN THE ELEMENTARY SCHOOL ..... 3 sem. hrs.

Primarily designed for teachers in service. Construction of teaching materials to be used in the classroom, investigation into problems in an inquiry approach, and learning of the basic steps of the scientific methods of problems solving and methods of developing a scientific attitude in children are aspects of the course.

SECONDARY EDUCATION

Professors Donald E. Enders, Richard O. Wolfe; Associate Professors Raymond E. Babineau, Glenn A. Good, Martin M. Keller, Milton Levin, A. J. McDonnell (Chairman), Kenneth Whitney.

COURSES

(Code 65)

65.374 TEACHING OF READING IN ACADEMIC SUBJECTS ..... 3 sem. hrs.

Understanding and techniques for developing reading skills applicable to the secondary school. Emphasis on readiness, comprehension, silent reading, and oral reading through secondary school academic subjects. The course lends itself to English teachers who wish certification in the area of reading.

65.396 CURRICULUM AND INSTRUCTION IN THE SECONDARY SCHOOL ..... 6 sem. hrs.

The course consists of two parts taught concurrently in a team approach, with each part accounting for three semester hours credit. Together, they comprise broad studies of secondary school curriculum, education decision making, instructional methods, testing, planning and educational media combined withs studies of curriculum and teaching of the student's subject or area of specialization. The student registers for 65.396 and for the appropriate accompanying course from the following list:

65.350—Teaching of Business Subjects in Secondary Schools
65.351—Teaching of English in the Secondary School
65.352—Teaching of Mathematics in the Secondary School
65.353—Teaching of Biological Science in the Secondary School
65.354 Teaching of Physical Science in the Secondary School
(Offered Spring Semester Only)
65.355—Teaching of Social Studies in the Secondary School
65.356—Teaching of Speech in the Secondary School
65.357—Teaching of Geography in the Secondary School
65.358—Teaching of Spanish in the Secondary School
65.359—Teaching of French in the Secondary School
65.360—Teaching of German in the Secondary School
} Offered spring semester only

Prerequisite: Psychology 48.101, 48.271; Education 60.393; junior standing in one of the curricula in Secondary Education.

65.402 STUDENT TEACHING IN THE SECONDARY SCHOOL ..... 12 sem. hrs.

Students are assigned to public schools where they work with selected classroom teachers and college supervisors in teaching experiences. Students follow the same schedule and assume the same responsibilities as their cooperating teachers. Further information, including location of off-campus centers is given in Section 8.2.

Prerequisite: Education 65.396; QPA as prescribed for 62.401.

65.405 INTERIM TEACHING IN THE SECONDARY SCHOOL . . . . . 3-6 sem. hrs.

Full-time teaching in the secondary school with an interim certificate, under the direction and supervision of the professional faculty in cooperation with local school districts.

65.411 SEMINAR IN SECONDARY EDUCATION . . . . . 3 sem. hrs.

Activities center around concerns and problems encountered in the teaching assignments of the participants. The range of activities is determined by individual need and by levels of professional competency. Diagnosis, mutual development of objectives, self-evaluation.

65.431 INDEPENDENT STUDY . . . . . 1-3 sem. hrs.

Consent of the Department Chairman required.

65.441 SECONDARY EDUCATION WORKSHOP . . . . . 3-6 sem. hrs.

Designed for both teachers in service and upper level undergraduates. Study of selected areas in secondary education. Individual or group study of classroom subjects of interest or concern in teaching.

NURSING

(Code 69)

69.301 PUBLIC SCHOOL NURSING I . . . . . 3 sem. hrs.

Public school nursing as a branch of public health nursing; historical background; fields of responsibility; problems and limitations of the profession; techniques of handling public school health problems. *Fall.*

69.302 PUBLIC SCHOOL NURSING II . . . . . 3 sem. hrs.

A study of physical, emotional, and social problems affecting the health of the school child and the methods that may be employed by home, school, and community in helping to solve health problems; emphasis on the nurse as co-ordinator in the use of local, state, and federal resources. *Spring.*
Prerequisite: 69.301.

69.304 PUBLIC HEALTH NURSING . . . . . 3 sem. hrs.

Historical background, fundamental principles, organizational framework, problems of community participation, and trends in public health nursing.

69.305 NUTRITION . . . . . 3 sem. hrs.

A review of basic principles of nutrition with relation to economic factors and cultural food patterns; special emphasis on the nutritional needs of the school-age child.

69.306 FAMILY CASE WORK . . . . . 3 sem. hrs.

An overview of social welfare and interviewing principles for school nurses. Case histories and interviewing situations are selected for critical discussion to acquaint the student with application of case work methods in school nursing practice.

69.309 COMMUNITY HEALTH . . . . . 3 sem. hrs.

Facets of community health, including historical background, environmental concern, and methods of control; contemporary and future problems dealing with radiation, air-water pollution, and space.

69.310 MODERN COMMUNICABLE DISEASES . . . . . 3 sem. hrs.

Current practices and the role of the school nurse in communicable disease prevention and control with emphasis on the relationships between physical, socio-economic, and biologic environment.

69.311 (302) PUBLIC SCHOOL ORGANIZATION FOR NURSES . . . . . 2 sem. hrs.

The course is designed to prepare the school nurse to function effectively in the public school organization. Relationships with which the nurse is involved in the discharge of her responsibilities.

SPECIAL EDUCATION

Professors Emily A. Reuwsaat, Andrew J. Karpinski (Chairman), John M. McLaughlin, Jr.; Associate Professors James T. Reifer, Margaret S. Webber; Assistant Professor Carroll J. Redfern; Instructor Joseph Youshock.

General Courses

(Code 70)

70.201 EDUCATION OF EXCEPTIONAL CHILDREN . . . 3 sem. hrs.

The educational problems of exceptional children. History and philosophy of special education programs for exceptional children.

70.352 (352-354) EXPERIENCE WITH EXCEPTIONAL CHILDREN . . . . . 1-3 sem. hrs.

Experience working individually with exceptional children in various settings.
Prerequisite: Junior and senior status and permission of instructor.

70.450 BEHAVIOR DISORDERS . . . . . 3 sem. hrs.

Psychological development of behavior and its effect on the child's school performance. The effect of the school on the child is also discussed as are intervention approaches in educating emotionally disturbed children.
Prerequisites: Psychology 48.101, 48.271.

70.451 SPEECH IMPROVEMENT FOR THE CLASSROOM . . . . . 3 sem. hrs.

An introduction to language and speech problems commonly found among school children; practical methods and attitudes for improvement of communication in the classroom setting. Open to students of all curricula and in-service classroom teachers.

70.454 DISORDERS OF WRITTEN COMMUNICATION . . 3 sem. hrs.

An introductory course to enable the clinician or teacher to recognize the functional level of the child, to recognize possible disorders for evaluative referrals, and to play or carry out meaningful, corrective therapy. A review of the developmental processes involved in encoding and decoding orthography, with emphasis placed on the recognition of related disorders.

70.455 LEARNING DISABILITIES . . . . . 3 sem. hrs.

A study of the characteristics and symptoms of specific learning disorders. Students are introduced to diagnostic and educational procedures used with learning disorders. Emphasis is on perceptual and conceptual factors in the development of language skills.
Prerequisites: Psychology 48.101, and 48.371.

Teaching the Mentally Retarded

(Code 71)

71.201 INTRODUCTION TO MENTAL RETARDATION . . 3 sem. hrs.

Overview of behavioral and learning characteristics of the mentally retarded. Etiology and environmental aspects of development of the mentally retarded. Observations of special classes; field trips to institutions.

71.303 CRAFTS FOR ALL LEVELS OF MENTALLY RETARDED . . . . . 4 sem. hrs.

Laboratory experiences with craft activities for use with all levels of the mentally retarded. Analysis of the crafts experience for development of techniques, and curricular emphasis and correlation with the total program for the mentally retarded. 6 class hours/week.
Prerequisite: 71.201.

71.351 SPECIAL CLASS METHODS: Primary and Intermediate Levels . . . . . 3 sem. hrs.

Organization of instruction for trainable and educable mentally retarded. Curriculum methods and materials for primary and intermediate levels. Observation of special classes and construction of teaching materials.
Prerequisite: 71.201.

71.352 SPECIAL CLASS METHODS: Secondary Levels . . . . . 3 sem. hrs.

A student-centered workshop approach in analysis of methods, research, and philosophies currently in use in the teaching of the mentally retarded. Practice in the use of various teaching aids and machines related to student projects in secondary special classes for the mentally retarded.
Prerequisite: 71.201.

71.353 METHODS AND MATERIALS FOR TEACHERS OF THE LOW FUNCTIONING MENTALLY RETARDED . . . . . 3 sem. hrs.

Introduction to methods and materials of instruction suitable for mentally retarded individuals who have severe multiple disabilities. Observations of and participation in public school and residential programs.
Prerequisite: Junior or senior standing.

71.361 SEMINAR IN TEACHING THE MENTALLY RETARDED . . . . . 3 sem. hrs.

Practical problems of teaching special classes for the mentally retarded. Organization and administration of classes, coordination with various personnel serving the students, integration and curriculum problems, facilities, equipment and materials. Educational Media. Pennsylvania State School Law and State mandated special services. Teacher competence and problems pertinent to student teachng. (May be taken same semester as second methods course.)

71.375 INDIVIDUAL PROJECT . . . . . 1-3 sem. hrs.

Project planned according to interests and needs of the individual student, in any of the following suggested areas: library research, curriculum study, work with individual children, internship in special aspects of education programs. (*Open to juniors and seniors only with staff approval.*)

71.400 WORKSHOP: PROBLEMS AND METHODS IN SPECIAL EDUCATION . . . . . 6 sem. hrs.

Investigations are made of recent developments in the education of the educable mentally retarded. Topics will vary according to interest and needs of students. (*For teachers in the field with degrees; not for regular students in the Teaching of the Mentally Retarded curriculum.*)

71.401 STUDENT TEACHING, M.R. . . . . 12 sem. hrs.

Thirty hours per week of supervised student teaching experience under the direction of the professional staff in cooperation with local and state school divisions.
Prerequisite: 71.361.

71.403 INTERIM TEACHING IN SPECIAL CLASSES . . 3-6 sem. hrs.

Full-time teaching with an interim certificate under the direction and supervision of the professional staff in cooperation with local and state schools.

71.405 WORKSHOP: THE TRAINABLE MENTALLY RETARDED . . . . . 6 sem. hrs.

A seminar type workshop designed to give the student an intensive study and understanding of the trainable mentally retarded individual. Identification, etiology, characteristics, and programming for these individuals. Phases of training programs and recent methods and materials for the trainable mentally retarded are discussed, demonstrated, and applied by the student. (Special program, offered as needed.)

71.432 LANGUAGE ARTS FOR SPECIAL CLASSES . . . . 3 sem. hrs.

A student-centered workshop approach in analysis of methods, research and philosophies in current use in the teaching of the language arts to special classes. Practice in the use of teaching aids and machines related to student projects in language arts applicable to individual needs of children in special classes.
Prerequisite: Education 62.371, 71.351.

COMMUNICATION DISORDERS

Professors James D. Bryden (Chairman), Margaret C. Lefevre, Gerald W. Powers; Associate Professor Benjamin S. Andrews; Assistant Professors Colleen J. Marks, G. Donald Miller, Richard M. Smith.

COURSES

(Code 74)

74.101 CLINICAL VOICE AND DICTION ..... 1 sem. hr.

Voice production and articulation; individualized guidance with personal speech problems. A *clinic experience planned for any student who seeks to improve his voice and articulation.*

74.152 VOICE AND ARTICULATION ..... 3 sem. hrs.

An introduction to the study of human communication and communication disorders: the role of the professionals in speech and language pathology and education of the deaf; basic processes and functions of human communication in terms of student performance in oral communication; typical problems of children and adults.

74.201 HISTORY, EDUCATION AND GUIDANCE OF THE DEAF ..... 3 sem. hrs.

The handicap of hearing impairment is explored with emphasis on the history of educational procedures and guidance in communicative, psychological and vocational habilitation.

74.251 PHONETICS ..... 3 sem. hrs.

International Phonetic Alphabet is used. Students develop competence in reading and transcription of symbols.

74.252 SPEECH PATHOLOGY I ..... 3 sem. hrs.

The neurophysiological bases of language and speech are studied as fundamental to the understanding of pathologies of language and speech.
Prerequisite: 74.152, 251.

74.253 SPEECH PATHOLOGY II ..... 3 sem. hrs.

Evaluative procedures and techniques for identifying communication disorders. Research findings are explored.
Prerequisite: 74.252.

74.276 INTRODUCTION TO AUDIOLOGY ..... 3 sem. hrs.

Causes, evaluation techniques, and rehabilitative procedures for various types of hearing problems; related auditory, speech, psychological, and educational factors; the roles of parent, educator, and specialist in the rehabilitation program.

74.302 EXPERIENCE IN EDUCATION OF THE DEAF AND HEARING IMPAIRED . . . . . 1-3 sem. hrs.

Experience working under supervision with deaf and hearing impaired children in the demonstration classroom or field facility.
Prerequisite: Permission of the instructor.

74.351 CLINICAL METHODS IN COMMUNICATION DISORDERS . . . . . 3 sem. hrs.

Materials and methods applicable to clinical practicum are discussed. Opportunities for observing demonstrations by the staff are provided. Students are required to compose sample lesson plans and evaluation reports. These experiences culminate in closely supervised therapy with milder cases of speech and hearing disorders.
Prerequisites: 74.152, 251, 252, 253.

74.352 CLINICAL PRACTICUM: COMMUNICATION DISORDERS . . . . . 3 sem. hrs.

Students continue supervised clinical work and are given increasing responsibility and experience with cases of greater complexity.
Prerequisite: 74.351.

74.376 AUDITORY TRAINING AND SPEECH READING . . . . . 3 sem. hrs.

Current teaching methods for educating children and adults with moderate and severe hearing losses.
Prerequisite: 74.251, 276.

74.390 DIRECTED PROJECT IN COMMUNICATION DISORDERS . . . . . 3 sem. hrs.

This course provides opportunity to carry out special in-residence or field projects in professional service programs under the direction of the faculty or designated practitioners. A detailed project plan must be submitted for faculty approval prior to registration.

74.402 CLINICAL FIELD EXPERIENCE . . . . . 12 sem. hrs.

A full semester program of 30 hours of speech correction per week is provided for each student. Prospective speech and hearing clinicians gain experience by working with professional people in the field.

74.452 ANATOMY OF SPEECH AND HEARING MECHANISMS . . . . . 3 sem. hrs.

Embryology, anatomy, neurology, and physiology of the larynx and ear. The processes involved in human speaking and hearing are explored.

74.460 PSYCHOLINQUISTICS . . . . . 3 sem. hrs.

Language as a psychological phenomenon; nature and acquisition of meaning, and the learning of systems; influences of verbal and nonverbal antecedent conditions on both verbal and nonverbal learning. Descriptive models of language mediators in behavior.
Prerequisites: 74.152, 251, 276.

74.461 CLINICAL PROBLEMS IN COMMUNICATION DISORDERS . . . . . 3 sem. hrs.

Practical considerations of day to day problems encountered by the speech clinician and public school programs; Pennsylvania School Law and State mandated special service programs.

74.462 PROBLEMS IN EDUCATION OF THE DEAF AND HEARING IMPAIRED . . . . . 3 sem. hrs.

The educational problem of hearing impairment and the functions of teachers in public and private educational settings.

74.466 ADVANCED CLINICAL PRACTICUM (Internship) . . . . . 3 sem. hrs.

Clinical experience with more complex disorders. Differential diagnostic and therapeutic procedures for use in cases with cerebral palsy, aphasia, auditory impairments, cleft palate, and stuttering. Case studies and research are utilized.
Prerequisite: 74.351, 352.

74.467 PSYCHOLOGY OF SPEECH AND HEARING . . . . 3 sem. hrs.

The developmental aspects of language, normal and abnormal speech, and hearing patterns of individuals are discussed in relation to their personality. Current educational and therapeutic trends and practices.
Prerequisite: 74.351 or concurrent registration.

74.471 SEMINAR IN SPEECH PATHOLOGY . . . . . 3 sem. hrs.

Pathological conditions resulting in communication problems are investigated; remedial techniques are considered in relation to current research findings. Students are given orientation to various types of clinical settings and to a projection of needs for services.
Prerequisites: 74.252, 253, 351, 352.

74.472 MEASUREMENT OF HEARING LOSS . . . . . 3 sem. hrs.

The anatomy and physiology of the hearing mechanisms. Etiology of hearing losses, interpretation of audiometric evaluations and available rehabilitative procedures. Laboratory experience in the administration of clinical audiometric evaluations.
Prerequisites: 74.276, 376.

74.475 INTRODUCTION TO SPEECH SCIENCE . . . . . 3 sem. hrs.

The physical properties of acoustic signals are considered as factors that affect the nature of production and subsequent reception of speech. Phonetic instrumentation is introduced in relation to the analysis and synthesis of speech. Application of principles of speech science to speech therapy and other areas.
Prerequisites: 74.152, 251, 253, 276, 376.

74.480 INDEPENDENT STUDY AND RESEARCH . . . . . 1-3 sem. hrs.

This course permits students to work under faculty guidance on library study of specified areas or on individual research or learning projects when particular needs cannot be met by registration in regularly scheduled courses. Credit is determined by the nature and scope of the project undertaken.

9. SCHOOL OF BUSINESS

Professors: Emory W. Rarig, Dean; Bernard C. Dill, Ellen L. Lensing, Cyril A. Lindquist, Francis J. Radice, William G. Williams; Associate Professors Charles M. Bayler, Willard A. Christian, James B. Creasy, Norman L. Hilgar, Clayton H. Hinkel, Margaret J. Long, Margaret E. McCern; Assistant Professors J. Weston Baker, John E. Dennen, Lester J. Dietterick, Doyle G. Dodson, Francis J. Gallagher, John E. Hartzel, Robert M. Hutchinson, Margaret Ann Hykes, David Khalifa, Jack L. Meiss, Joseph Pugliese, Robert P. Yori.

9.1 GENERAL INFORMATION

The School of Business offers a curriculum in Business Administration with three options for specialization, and a curriculum in Business Education.

The curriculum in Business Administration is designed to prepare the student for a beginning position in business; the curriculum in Business Education leads to certification as a teacher of business subjects in secondary schools.

Students may enroll in the School of Business as freshmen. During the first year the student pursues basic courses, after which he applies for admission to his specialized curriculum.

9.2 THE BUSINESS ADMINISTRATION CURRICULUM

Degree

The degree, Bachelor of Science (B.S.), is conferred upon successful completion of the Business Administration curriculum.

Objectives

The student in Business Administration should aim to develop specialized knowledge and skills applicable to his first employment. He should also consider it important to develop his potential for future growth that may lead to an eventual position of leadership; for this purpose he should seek a modern understanding of business in its relationship to society, of economic forces, of the intellectual processes involved in management decision-making and the modern decision-making tools, and he should be concerned for his personal development in such attributes as intellectual discipline and culture. These concerns should help him determine his choice of elective courses both in general education and in Business Administration subjects.

Curriculum Requirements

The curriculum in Business Administration requires the successful completion of five sets of courses.

A. General Education (See Section 6.3)

B. Core Courses: Mathematics 53.111; Economics 40.246 or Mathematics 53.123; General Business 90.331; Accounting 91.221, 222, 323; Information Processing 92.250; Management 93.342, 343, 344, 445, 446; Economics 40.211, 212, 346, 413.

C. Specialization in one of the following areas:

ACCOUNTING

General Business: 90.332;
Accounting: 91.321, 322, 421, 422, 423.

GENERAL BUSINESS ADMINISTRATION

General Business: 90.332; Information Processing: 92.252; Management: 93.345, 444, 447.

BUSINESS ADMINISTRATION – ECONOMICS

Economics: 40.311, 312, 313, 422 or 423.

D. Elective courses to complete a minimum of 63 semester hours in business and economics, chosen from: Economics 40.313, 315, 346, 410, 422, 423, 433, 446; General Business 90.332; Accounting 91.421, 422, 423, 448; Information Processing 92.252, 350, 452, 454, 456; Management 93.341, 345, 442, 443, 444, 445, 447.

E. Free electives as required to meet the total 128 sem. hr. graduation requirement.

9.3 BUSINESS EDUCATION CURRICULUM

Degree

The degree, Bachelor of Science in Education (B.S. in Ed.), is conferred upon successful completion of the Business Education curriculum.

Certification

Upon completion of the curriculum and recommendation of the College, the State Department of Education issues an Instructional Level I certificate.

Objectives

The curriculum in Business Education is planned to develop specialized and professional knowledge and skills for a first position teaching business subjects in secondary schools and vocational-technical schools of the Commonwealth.

Admission

Freshmen who are interested in business education enroll initially as general students in the School of Business. Administration to the Business Education Curriculum is selective; students may apply for admission to the curriculum during their freshmen year. High School work in business subjects is not prerequisite to the college program.

Curriculum Requirements

The requirements of the curriculum include five sets of courses as follows:

A. General Education (Section 6.3)

B. Business Education Core courses: General Business 90.101, 331, 332, 401; Accounting 91.221; Secretarial 94.201, 202, 301; Economics 40.211, 212.

C. Business Education Specialization. The student chooses one of the following specializations:

Accounting—General Business 90.334; Accounting 91.222, 321, 322; one course from 91.421, 422, 423; six semester hours from the Elective List below.

Secretarial—94.211, 212, 311, 333; Six semester hours from the Elective List below.

General (Secretarial and Accounting) — Accounting 91.222, 321, 322; Secretarial 94.211, 212, 311; General 90.334 or Secretarial 94.333; three semester hours from the Elective List.

Business Information Processing—Business Information Processing 92.250, 252, 350, 452, 454; Mathematics 53.111; Economics 40.246, 346.

Elective List: General 90.241, 90.334; Accounting 91.421, 422, 423; Information Processing 92.252; Management 93.341, 342; Other courses in business may be used upon recommendation of the adviser.

D. Professional Education, Psychology, Student Teaching (The student should supply prerequisites to these courses during the sophomore year.)

Psychology 48.271, Educational Psychology	3 sem. hrs.
Education 65.396, Curriculum and Instruction in the Secondary School	3 sem. hrs.
Education 65.403, Professional Semester in Business Education	15 sem. hrs.

E. Free Electives as required to complete the total graduation requirement of 128 sem. hrs.

9.4 COURSES

GENERAL

(Code 90)

90.101 INTRODUCTION TO BUSINESS ORGANIZATION AND FINANCE ..... 3 sem. hrs.

A survey course open to all students. Subject area includes types of business organizations; functional areas of business operations; organizational structure; insurance; managerial controls utilized in business; management functions; and the relation of business to government and society.

90.241 SALESMANSHIP ..... 3 sem. hrs.

Principles underlying the sales processes; the salesman in relation to his firm, his goods, and his customers; approach, demonstration, and close of individual sales transactions.

90.331 BUSINESS LAW I ..... 3 sem. hrs.

Legal rights and liabilities; principles of law applicable to business transactions with particular reference to contracts, bailments, personal and real property, and sales; sources of law and judicial system.

90.332 BUSINESS LAW II ..... 3 sem. hrs.

Principles of law as they pertain to negotiable instruments, guaranty and surety contracts, insurance, principal and agency relationships, bankruptcy proceedings, and estates and trusts.
Prerequisite: 90.331.

90.334 BUSINESS MATHEMATICS ..... 3 sem. hrs.

Concepts and principles related to fundamental business operations. Credit, insurance, taxes, selling and finance, investments, the interpretation of statistical data; methods of teaching business arithmetic in the secondary school.

90.401 RECORDS MANAGEMENT AND OFFICE MACHINES ..... 3 sem. hrs.

Office dictating and transcribing machines; adding-listing machines; printing rotary, and key-driven calculators; filing systems, business papers, and office procedures; teaching methods and techniques.
Prerequisite: 94.202.

65.403 THE PROFESSIONAL SEMESTER IN BUSINESS EDUCATION ..... 15 sem. hrs.

The Professional Semester comprises three major activities: A. A ten-day field experience to observe the overall operation of a school system; B. An eight-week period of classroom study correlated with participatory teaching activities; and C. An eight-week period of full-time supervised student teaching.

90.431 INDEPENDENT STUDY IN BUSINESS . . . . . 1-3 sem. hrs.

Open to Seniors only. Topic and outline of Project must be approved by Dean and Faculty Sponsor.

ACCOUNTING

(Code 91)

91.221 PRINCIPLES OF ACCOUNTING I . . . . . 3 sem. hrs.

Development of the accounting cycle covering both service and merchandising activities of a sole proprietorship; special journals and special ledgers, accrued and deferred items, and business papers.

91.222 PRINCIPLES OF ACCOUNTING II . . . . . 3 sem. hrs.

Further development of the accounting cycle; recording, summarizing, and interpreting financial data for partnerships and corporations; development of an understanding of the voucher system.
Prerequisite: 91.221.

91.321 INTERMEDIATE ACCOUNTING I . . . . . 3 sem. hrs.

Preparation and interpretation of principal accounting statements; theoretical discussions of the standards of good accounting practice, with emphasis on current items.
Prerequisite: 91.222.

91.322 INTERMEDIATE ACCOUNTING II . . . . . 3 sem. hrs.

Standards of good accounting practice with emphasis on non-current items; solution and discussion of various contemporary accounting problems; detailed analysis of major financial statements of business organizations.
Prerequisite: 91.321.

91.323 ACCOUNTING FOR MANAGEMENT DECISION . 3 sem. hrs.

Management problems of depreciation methods, valuation of good will, hidden balance sheet reserves, inventory evaluation, the price level and historical cost, budget and actual costs, and tax planning. The flows of cost accounting, financial accounting, and tax accounting are considered.
Prerequisite: 91.221 and 222.

91.421 COST ACCOUNTING . . . . . 3 sem. hrs.

The elements of production costs using the job order system, the process cost system, and the standard cost system; interpretation of cost data.
Prerequisite: 91.222.

91.422 AUDITING THEORY AND PROCEDURE . . . . . 3 sem. hrs.

Principles, standards, procedures, and techniques applicable to internal and public auditing; consideration of the audit report and development of working papers for preparation of the report.
Prerequisite: 91.222.

91.423 FEDERAL TAX ACCOUNTING . . . . . 3 sem. hrs.

Procedures in accounting as dictated by Federal Tax laws; laws governing the preparation of Federal Income Tax return for individuals and small businesses.
Prerequisite: 91.222.

91.424 STATE AND FEDERAL TAX PROBLEMS . . . . . 3 sem. hrs.

Group and individual assignments selected from the following areas of advanced tax accounting: Partnerships and corporations, Pennsylvania corporate taxes, estates and trusts, reporting to governmental agencies. Lectures, discussion of issues, practice in the solution of problems.
Prerequisite: 91.422, 91.423.

91.448 ADVANCED COST ACCOUNTING . . . . . 3 sem. hrs.

The utilization of cost data for planning, control and decision making. The extension of methods and procedures to standard, estimated and distribution cost systems.
Prerequisite: 91.221, 222, and 421.

91.449 CPA PROBLEMS . . . . . 3 sem. hrs.

The application of procedures for the solving of a cross-section of complex accounting problems, and the discussion of related theory and practice.
Prerequisite: 91.323, 421, 422, 423, or consent of instructor.

INFORMATION PROCESSING

(Code 92)

92.250 BUSINESS INFORMATION PROCESSING . . . . . 3 sem. hrs.

Introduction and basic orientation to business information processing. The student is introduced to the peripheral devices. Flowcharting, keypunching, sorting, tabulating, and programming exercises; observations on third generation computer hardware.

92.252 BUSINESS ORIENTED PROGRAMMING . . . . . 3 sem. hrs.

Designed to familiarize the student with the Cobol language and to develop his ability to use Cobol an an effective problem oriented language. The student defines, writes, tests, and debugs several Cobol problems. At least one problem compiled and run "hands on" by each class member.
Prerequisite: 92.250.

92.350 ANALYTICAL COMPUTER CONCEPTS . . . . . 3 sem. hrs.

Designed to familiarize the student with the Basic Assembly Language to develop further understanding of the computer, including registers, multi-programming and time sharing. Compiler type languages are discussed through an analysis of the Fortran compiler. Tape and disc concepts.
Prerequisite: 92.252 or 53.271.

92.452 SYSTEMS ANALYSIS AND DESIGN . . . . . 3 sem. hrs.

Student-centered project approach to basic systems analysis and design; forms design, data collecting, data files, file maintenance, systems maintenance, systems flowcharting, integration of systems, feasibility studies, and systems

implementation. Each student completes projects illustrative of basic systems concepts, and participates in one large class project which takes a system through the various stages of feasibility, design, and implementation.
Prerequisite: 92.250, 252, 350.

92.454 EDUCATIONAL COMPUTER APPLICATIONS . . . 3 sem. hrs.

The major objective is to assist the prospective or in-service teacher to utilize the capabilities of the computer in his own classroom. The computer as a tool of research and calculation, management simulation games, computer assisted testing, computer managed instruction, and computer assisted instruction explored through readings, discussions, films, and guest lectures. The student designs, develops, and/or programs educational application suitable for the high school or college classroom.
Prerequisite: 92.250, 252, 350, and 452.

92.456 MANAGERIAL COMPUTER APPLICATIONS . . . . 3 sem. hrs.

Gives the student practical experience in the analysis of business problems. Advanced techniques and concepts of programming and systems analysis are featured with a major emphasis on problem-solving applications dealing with such topics as payroll, inventory, and sales. Students are required to program, test, and make operational various applicational routines with raw data. Hands-on experience is interspersed throughout the course.
Prerequisites: 92.250, 252, 350, and 452.

MANAGEMENT

(Code 93)

93.341 RETAIL MANAGEMENT CONCEPTS . . . . . 3 sem. hrs.

Presents retailing as a dynamic sphere of business, characterized by the necessity of adapting its operations to changing demographic characteristics of trade areas. Competitive retail problems; considerations in formulating company policies such as location, layout, promotion, service, and personnel. Analyses of case situations to develop ability to apply sound principles of current retail management practice.
Prerequisite: Economics 40.211, 40.212.

93.342 MARKETING: PRINCIPLES AND PRACTICES . . . 3 sem. hrs.

Functional and institutional aspects of distribution of materials and products; significance of quantitative changes in population characteristics; trade-channel, price, and other marketing policies.
Prerequisite: Econ. 40.211 and 40.212.

93.343 BUSINESS FINANCE . . . . . 3 sem. hrs.

Financial data analyzed for the solution of managerial problems in finance, security contracts, capital structures, cost of capital, security underwriting and marketing; management of working capital, use of the capital market, dividend policy and asset valuation.
Prerequisites: 91.221 and 222; and 40.211, 212.

93.344 MANAGEMENT PROCESSES . . . . . 3 sem. hrs.

Fundamentals of organization and administration. Classical, Behavioral and Management science schools; principles and practices in planning, organizing and controlling business activities; and operating functions in a business firm.
Prerequisite: 40.211, 212.

93.345 PERSONNEL MANAGEMENT . . . . . 3 sem. hrs.

Policies and current practices in the selection, placement, training-development, evaluation, compensation and motivation of employees at all levels in business firms.
Prerequisite: Economics 40.211 and 40.212; and 93.344 recommended.

93.441 INVESTMENT MANAGEMENT . . . . . 3 sem. hrs.

Principles of security investments: descriptions of security investments; investment planning; security valuation; portfolio strategy; security markets. (*Summer Session only*).
Prerequisite: 93.343, and permission of instructor.

93.442 ADVERTISING MANAGEMENT: ORGANIZATION AND PLANNING . . . . . 3 sem. hrs.

Survey of advertising both as a marketing function and promotional medium. (*Fall term only*).
Prerequisite: Econ. 40.211, 212, and Bus. 93.342.

93.443 SALES MANAGEMENT . . . . . 3 sem. hrs.

Management of the sales of the materials and products from the viewpoint of the individual business enterprise in the United States. *Demand-pull* rather than *supply-push* is emphasized as a basis for contemporary practices in Sales Management. (*Fall term only*).
Prerequisite: Econ. 40.211, 40.212, and Bus. 93.342.

93.444 MARKETING MANAGEMENT . . . . . 3 sem. hrs.

Group and individual marketing research studies entailing the search of both documented sources and the results of field work. Students are encouraged to follow their fields of interest such as Management, Distribution, Advertising, and Marketing Practices. Prior approval of research projects by the instructor is required. Class members participate in oral and written presentations. (*Spring term only*).
Prerequisite: Bus. 93.342; two of the following: 93.341, 442, 443; and consent of the instructor.

93.445 BUSINESS REPORT WRITING . . . . . 3 sem. hrs.

The organization and preparation of reports of types used in business firms. Techniques of collecting, interpreting, and presenting information useful to management.
Prerequisite: Junior or Senior standing.

SECRETARIAL

(Code 94)

94.201 ELEMENTARY TYPEWRITING I . . . . . 2 sem. hrs.

Presentation and mastery of the keyboard and operating parts of the typewriter; stroking techniques and control; instruction in preparing business letters, manuscripts, carbon copies, envelopes, business forms, and cards; teaching techniques.

94.202 ELEMENTARY TYPEWRITING II . . . . . 2 sem. hrs.

Production techniques; typing letters, envelopes, and cards; multiple carbon work, preparation of manuscripts, tabulation, and legal forms; preparation of stencils and liquid process masters; teaching techniques.
Prerequisite: 94.201.

94.211 ELEMENTARY SHORTHAND I . . . . . 3 sem. hrs.

Beginning course in Gregg Shorthand Diamond Jubilee.

94.212 ELEMENTARY SHORTHAND II . . . . . 3 sem. hrs.

Development of ability to read shorthand notes.
Prerequisite: 94.211.

94.301 ADVANCED TYPEWRITING . . . . . 2 sem. hrs.

Advanced application of typewriting skills. Coordinated with Advanced Shorthand for those students seeking certification in shorthand.
Prerequisite: 94.202.

94.311 ADVANCED SHORTHAND . . . . . 3 sem. hrs.

Practice in dictation and transcription of shorthand, with speed and accuracy stressed; grammar, shorthand penmanship, and principles of teaching of shorthand.
Prerequisite: 94.212.

94.312 SECRETARIAL PRACTICE . . . . . 3 sem. hrs.

Stenographic and secretarial activities.
Prerequisite: 94.311.

94.333 BUSINESS CORRESPONDENCE AND REPORTS . . . . . 3 sem. hrs.

Review of essentials of grammar; study of the vocabulary of business; preparation of business forms; writing business letters of various types; preparation of personal data sheets; organization and preparation of business reports.
Prerequisite: 94.202.

94.412 TOUCH SHORTHAND . . . . . 3 sem. hrs.

Dictation and Transcription involving the use of a machine keyboard shorthand system. Development of a degree of proficiency in the use of a touch system; techniques for teaching machine shorthand.
Prerequisite: 94.301 or consent of the instructor.

93.446 BUSINESS POLICIES . . . . . 3 sem. hrs.

Sound business principles and policies studied in relation to daily decision and policy making by upper level of management. Quantitative and other methods, and techniques from subject fields of business and economics are applied to selected case problems.
Prerequisite: Senior standing.

93.447 RESEARCH STUDIES IN MANAGEMENT . . . . . 3 sem. hrs.

Identification of a problem, investigation, and preparation of a report on an individual basis. The student selects a problem relating to some field of Business Administration: accounting, finance, advertising, marketing, general and personnel management.
Prerequisite: Senior standing and consent of the instructor.

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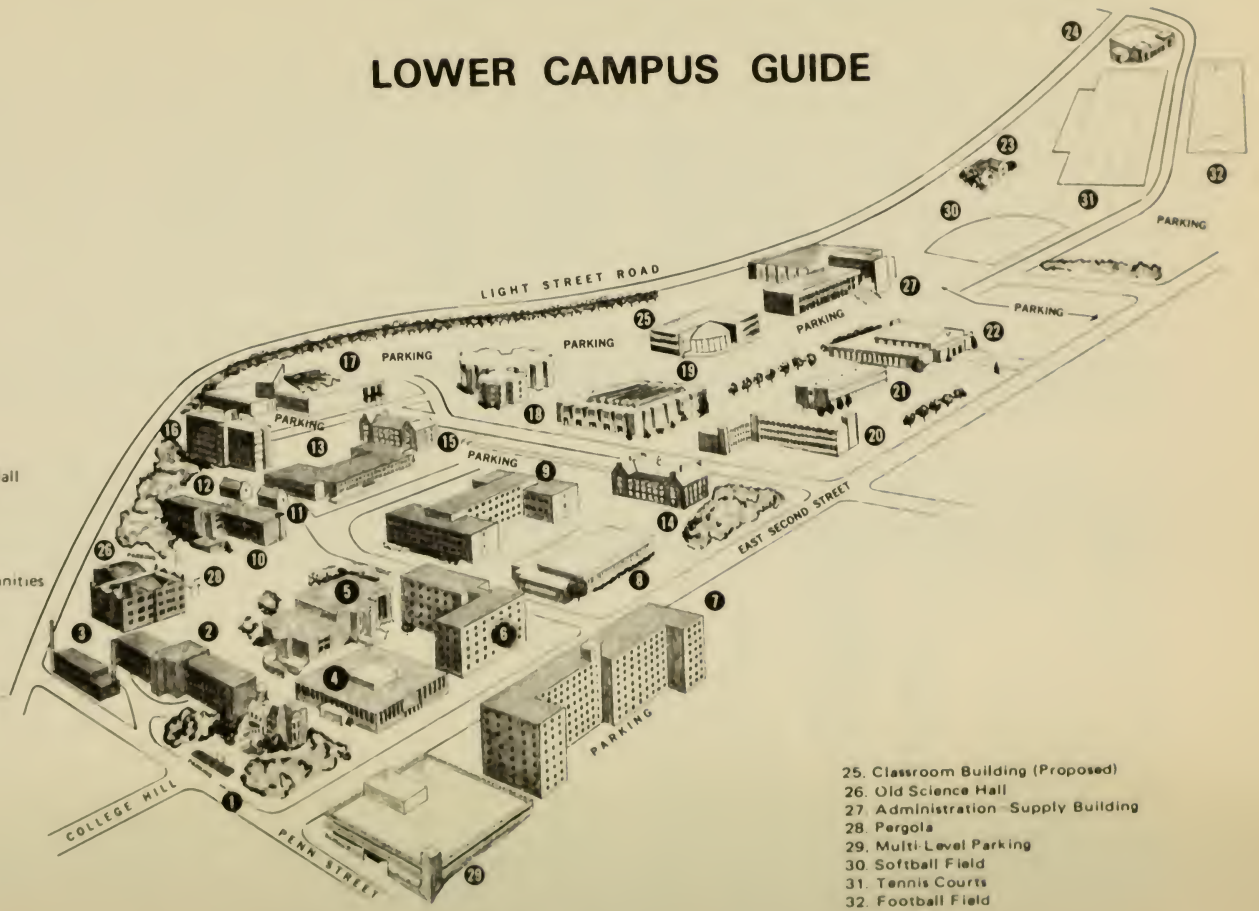
22. Centennial Gymnasium
23. President's Residence
24. Campus Maintenance Center



25. Classroom Building (Proposed)
26. Old Science Hall
27. Administration–Supply Building
28. Pergola
29. Multi-Level Parking
30. Softball Field
31. Tennis Courts
32. Football Field

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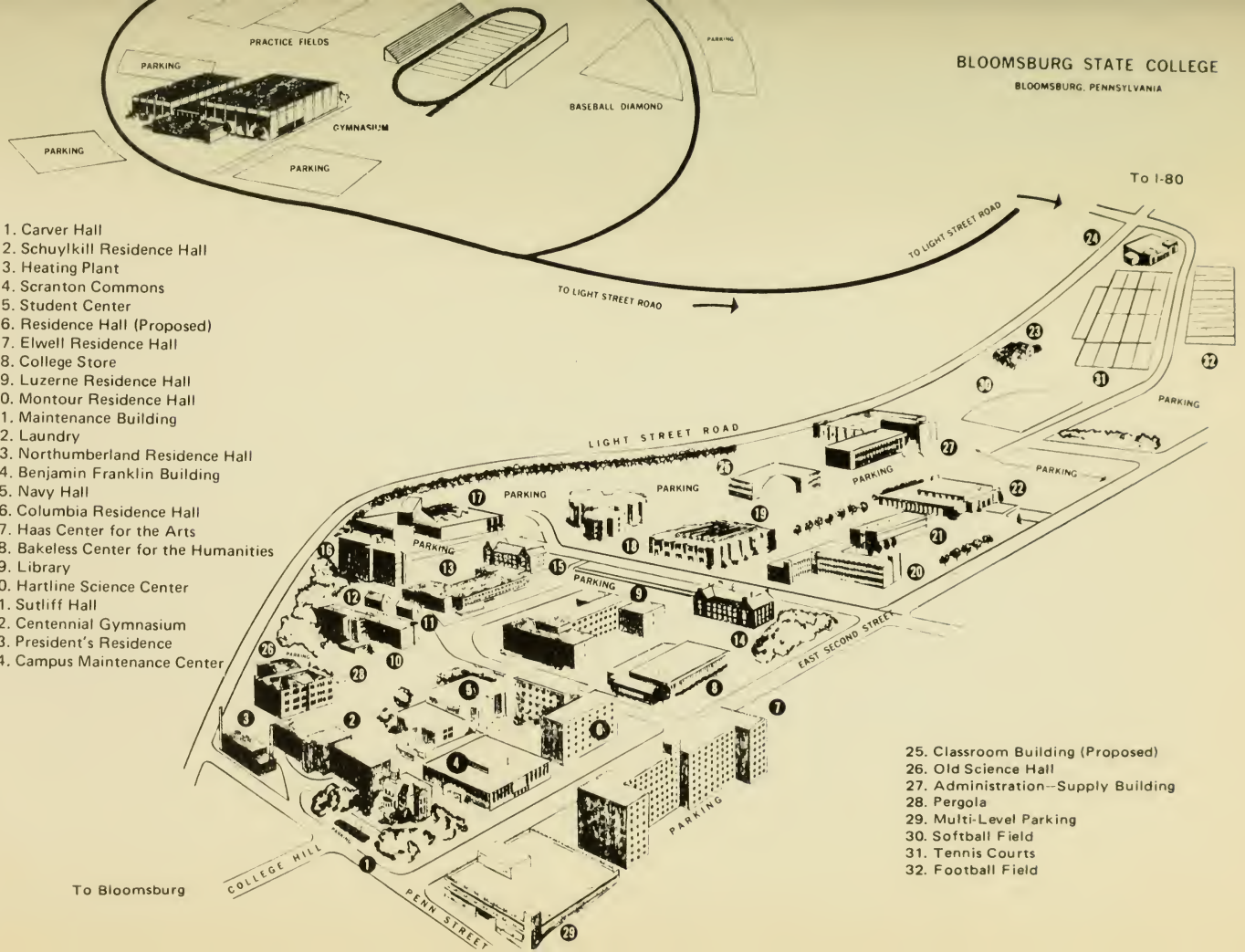

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